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## Educating Planners in Europe: A Review of 21<sup>st</sup> Century Study Programmes

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## ABSTRACT

Education for urban, regional and spatial planning has become a regular subject throughout most European nations; this can be attributed in part to European policies promoting planning and spatially balanced development, but also to the recognition that planning can support sustainability. Nevertheless, there is lingering and justifiable concern about the status, profile and recognition of planning as a profession in its own right with the result that planning and planning education remain contested territories in academia. Conceptions of planning differ between countries and over time. The array of different planning cultures and associated educational models and pedagogies that traditionally have coexisted in Europe mean that education for planning can be either very visible or leading a shadow existence being embedded in programmes of other disciplines. While planning education provision customarily has been shaped by changes in planning practice paradigms and the profession, in 21<sup>st</sup> century Europe the provision is also influenced by European integration policies, the Bologna process and powerful transformations affecting the higher education sector writ large.

This review seeks to advance our understanding of the complex dynamics at work, which to date have been only partially explored in the literature, by taking stock of the current state-of-play of planning education provision in Europe. Aside from examining the factors influencing planning education in Europe, an inventory of planning education programmes available throughout the member states of the Council of Europe was developed to guantify the provision as a critical first step. Figures indicate a substantial increase in the number of programmes when compared to limited historical data. Data also suggest an underdeveloped provision for education in planning in about ten per cent of European countries. Country case studies with historically differing planning cultures and education provision i.e., Spain, Portugal, Finland, Poland, Slovakia, the United Kingdom and Switzerland are used to compare and explore trends and developments (e.g., in respect to programme structure, curriculum content and focus, professional conceptions, specialisms) in detail. Findings demonstrate, both, an enduring power of national preferences and traditions but also some emerging commonalities. Overall a picture of increasing pluralism and diversity of education models transpires in the aftermath of Bologna which may contravene efforts to establish cross-national professional recognition and standards. Education for planning seems to embrace trends to provide increasingly international learning experiences and degrees while the provision of flexible recognised (online) degree programmes remains sparse. Recommendations for future actions and strategies to further develop and strengthen the field which is at present complex and little coordinated conclude the contribution.

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Glossary	
AESOP	Association of European Schools of Planning (a network of institutions providing planning education); <u>www.aesop-planning.eu</u>
APC	Assessment of professional competence
APERAU	Association pour la Promotion de l'Enseignement et de la Recherche en Aménagement et Urbanisme (a network of institutions offering planning education in Francophone countries); <u>www.aperau.org/organismes.html</u>
BSc., BA., Bc.	Bachelor of Science, Bachelor of Arts; Bachelor; first cycle (undergraduate) degree title; as planning education is offered through science and arts faculties both degree titles coexist as in <i>BA in Planning and Urban Design</i> ; or <i>BSc in City Planning</i> . Some countries just use <i>Bachelor in [subject]</i> i.e., urban planning without the distinction between sciences or arts.
CAS	Certificate of Advanced Studies (Swiss title of a CPD degree)
CoE	Council of Europe; an international body with 47 member countries. The aim of the CoE is to create a common democratic and legal area throughout the continent; <a href="http://www.coe.int">www.coe.int</a>
CIH	Chartered Institute of Housing, professional body for those working in the housing sector in the UK; <u>www.cih.co.uk</u>
CAP	Commonwealth Association of Planners; www.commonwealth-planners.org
CPD	Continued Professional Development
CSD	Committee on Spatial Development of the European Commission
CSERP	Committee for Spatial Economy and Regional Planning of the Polish Academy of Science
DAS	Diploma in Advanced Studies (Swiss title of a CPD degree)
Dipl-Ing	Diplom Ingenieur (pre-Bologna degree title awarded in technical disciplines following completion of a 4 or 5 year undergraduate, first degree programme)
D.Sc	Doctor of Science, 3 <sup>rd</sup> cycle degree title; see also PhD
EACEA	The Education, Audiovisual and Cultural Executive Agency (of the EC) manages certain cultural and educational programmes of the EU; eacea.ec.europa.eu/index_en.php
EC	European Commission, a governance body, which represents the interest of the European Union with its 27 member countries (as of 2012); <u>ec.europa.eu</u>
ECTP, ECTP-CEU	European Council of Town Planners – Conseil Européen des Urbanistes: umbrella organisation for spatial planning institutes in Europe; <u>www.ectp-ceu.eu</u>
ECTS	European Credit Transfer and Accumulation System; a currency to allow students to transfer credits earned at an institution other than their home institution and have it count towards their degree.
EEC	European Economic Community; international organisation created in 1957 and

	superseded by the European Community and European Union (EU)
EHEA	European Higher Education Area: a region of countries within which comparable, compatible and coherent systems of higher education exist. Its creation was one objective of the Bologna process.
ERASMUS	EU programme supporting mobility and institutional cooperation in HE
ERASMUS Mundus	EU supported world-wide cooperation and mobility programme in the field of higher education (2009-2013)
ESDP	European Spatial Development Perspective – European Commission policy document on the development of the Territory of the EU
ETH	Eidgenössische Technische Hochschule; Swiss Federal Institute of Technology
EU	European Union, an economic and political alliance of 27 member countries governed by the European Commission (EC) and its parliament; <u>europa.eu/</u>
EUA	European University Association; <u>www.eua.be/Home.aspx</u>
EURA	European Urban Research Association; <u>www.eura.org</u>
FISE	Professional body overseeing the qualification of professionals in the Finnish Building, HVAC and Real Estate Sector; <a href="http://www.fise.fi/default/www/suomi/in_english/">www.fise.fi/default/www/suomi/in_english/</a>
FSU	Schweizerischer Ingenieur- und Architektenverein; Swiss Engineering and Architecture Association
GIS	Geographic Information Systems
GPEAN	Global Planning Education Association Network, an umbrella organisation representing nine planning schools associations; <a href="http://www.gpean.net/g">www.gpean.net/g</a>
HE, HEIs	Higher Education, Higher Education Institution(s)
IFHP	International Federation for Housing and Planning; www.ifhp.org
ILT	The Chartered Institute for Logistics and Transport – world-wide organisation with a UK arm which serves as professional body for those working in Transport & Logistics; <u>www.cilt.org.uk</u>
INTERREG	Initiative aimed at stimulating cooperation and share solutions between regions in the EU; various phases since 1989
IP	Intensive Programme, one element of the ERASMUS scheme supporting short- term mobility and collaborative project work in multinational teams; <u>www.britishcouncil.org/erasmus_ip_leaflet_english_final.pdf</u>
ISCED	International Standard Classification of Education from 1997 defines 7 and the updated version (2011) defines 9 levels of educational attainment from 0 (early childhood) to level 8 (doctoral); epp.eurostat.ec.europa.eu/statistics_explained/index.php/Glossary:ISCED
ISOCARP	International Society of City and Regional Planners; non-governmental international association of professional planners; <a href="http://www.isocarp.org">www.isocarp.org</a>

LLP	Lifelong Learning Programme – EU suite of educational development programmes supporting learning from childhood to old age including ERASMUS, TEMPUS, ERASMUS Mundus, GRUNDTVIG, etc. ; <u>eacea.ec.europa.eu/Ilp/index_en.php</u>
Module	learning unit, typically worth between 2 and 20 ECTS; outside UK, also known as 'course'
MSc., MA.	Master of Science, Master of Arts; second cycle degree title; as planning education is offered through science and arts faculties both degree titles coexist as in <i>MA in Urban design</i> ; or <i>MSc in Planning</i> . In some countries only <i>Master</i> in Urban Planning (or similar) is used without distinguishing science or arts focus.
MAS	Master in Advanced Studies (Swiss degree title for a Post-professional degree)
NB	National Board – statutory body of professionals in Portugal
PhD	Abbreviation for Doctor of Philosophy; used as synonym for various 3 <sup>rd</sup> cycle doctoral level degree titles; see also D.Sc.
Planning course	See: planning programme
Planning (degree) programme	A curriculum with a set of modules or learning units providing a coherent body of knowledge and skills leading to a degree such as Bachelor or Master. In the UK, a degree programme is typically called a course.
Programme Accreditation	Approval by designated body (government, university committee or professional body) of the quality and standards of a degree programme
QAA	Quality Assurance Agency for Higher Education - independent body that reviews performance of universities and colleges of higher education in the UK and internationally; http://www.qaa.ac.uk
SIA	Stiftung der Schweizerischen Register REG; Swiss professional registration board
RICS	Royal Institution of Chartered Surveyors – professional body for land, property and construction professionals; http:// <u>www.rics.org</u>
RTPI	Royal Town Planning Institute – professional body of planners in the UK; <u>http://www.rtpi.org.uk</u>
TUPOB	Türkiye Planlama Okullari Birliği, Planning Schools Association of Turkey; <a href="http://www.spo.org.tr/tupob">http://www.spo.org.tr/tupob</a>
UAS	University of Applied Sciences
UN	United Nations; <u>www.un.org</u>
UNESCO	United Nations Educational Scientific and Cultural Organisation; <u>www.unesco.org</u>
UK	United Kingdom
VLP	Verein für Landesplanung; Association of Regional Planning
WWII	World War II

## **CHAPTER 1. Introduction**

The emergence of planning as a discipline taught at university was a rather piecemeal affair. While the establishment of professional societies and the first university-level education for planning in the early decades of the 20th century are commonly taken as the birth of planning as a distinct professional field - at least in Europe and North America - initially just a few institutions offered planning degrees at postgraduate level. The perceived need for a specialised profession and education for planning has waxed and waned and only gradually gained acceptance. Calls for planners and planning interventions often derive from crisis situations. For example, planning as an independent academic discipline and professional field received a considerable boost resulting in a proliferation of new planning degree programmes as part of the reconstruction and rebuilding efforts post WW II (e.g., Batey, 1985; Keller et al., 1996). More recently, the identification of planning as a key activity in building sustainable communities and cities (e.g., Egan, 2004; UN Habitat, 2009) or the recognition of the importance of planning in preparing for and mitigating climate change impact has renewed interest in the subject. In Europe, notions of transnational European spatial planning, cohesion and integration are furthermore creating new demands (e.g., Mangels and Cotella, 2012), while at the same time the Bologna agreement and associated reforms of the higher education sector have created opportunities to swiftly adjust and diversify the provision to respond to emerging planning aspects (Frank and Kurth, 2010; La Greca, 2012, p. 170).

Despite the present positive trajectory, many scholars remain concerned about the status and profile of planning as a profession. Academically the discipline is considered a contested territory (Davoudi and Pendlebury, 2010; McLoughlin, 1994; Wildavsky, 1973). Recognition of planning as an independent field of study differs considerably between countries, as do the interpretations of what planning entails and what planners (should) do in practice. The diversity is reflected in varied professional conceptions and educational models. At one end of the spectrum, planning has become an established, even regulated, profession of "generalists" with a specialism such as urban design, transport or land use planning (Perloff, 1957), supported by comprehensive degrees, agreed professional standards and competencies monitored by professional bodies or governments. At the other end, planners first and foremost are educated as engineers, economist, social scientists, geographers, or architects who specialise in planning at urban or regional scales. The diverse conceptualisation of planning has not only implications for planning curricula, accreditation and recognition but also for planners' skills sets, the portability of degrees and ultimately the mobility of planners in a European or global labour market.

Establishing the core of the discipline as well as clear boundaries to related fields will remain an ongoing project – at least for the time being (Geppert and Cotella, 2010). The causes are manifold. Firstly, planning as an interdisciplinary subject is frequently usurped as a specialist part of an established albeit cognate field, rather than a discipline in its own right. Related professions such as architecture or disciplines such as geography attract far more students than planning-only degrees; this suggests that planning is generally not seen as a viable endeavour in its own right. Secondly, with an applied creative focus, the field's standing in academia has been criticised for a lack of scientific rigour in the classical sense and its contributions disparaged within emerging research excellence frameworks. This is peculiar, as literature addressing trends in higher education more generally detect a push for employability (European University Association - EUA, 2003) and performativity (Barnett 2000; 2004), criteria on which planning as well as other professional programmes traditionally score highly. It seems that planning scholars have yet to capitalise on this opportunity by better communicating the fields' contributions and educational merits. Thirdly, the field has undergone a sequence of paradigm shifts (Stiftel et al., 2009; Dalton, 2001) as planning practice, approaches and processes adapted to changing external conditions in society (i.e., political ideas or Zeitgeist) to secure the field's relevance (Kunzmann, 1985). Changes in planning practice and the required adjustments in curricula are well documented (Rodwin and Sanyal, 2000; Dalton, 2001; Keller et al., 1996; Castells, 1998; Cuthbert, 1994a, 1994b; Friedmann, 1996; Sandercock, 1997; Ozawa and Seltzer, 1999; Pezzoli and Howe, 2001; Brković, 2012); they are testimony to the responsiveness of education providers (Frank, 2006) to ensure graduates have the knowledge and skills to address topical planning issues. In sum, planning has shifted from a rather narrowly focused technical design-based field to include a wide range of other dimensions such as policy and processes of governance. In some national contexts planning has moved almost exclusively into the realm of the social, behavioural, political, economic or environmental sciences although in others a strong design element has been maintained. Further changes in focus are practically pre-programmed in light of the need to develop sustainable cities and to mitigate climate change impacts (Hurlimann, 2009; UN Habitat, 2009, pp. 202-205; Birch and Silver, 2009; RTPI, 2011a). The continuous evolution and adaptation of planning approaches and divergent perspectives in different countries, regrettably, is seen as weakness by critics of the field. Even from within the field, voices warn of the loss of disciplinary identity, the dangers of diffusion and fragmentation associated with interdisciplinarity and diversity and the risk of planning education degrading to profession-led training (Davoudi and Pendlebury, 2010; Myers and Banerjee, 2005). There are no simple answers in how to address or overcome these concerns. A better understanding of current trends and developments in planning education may be a first step to identify a meaningful way forward.

This study, thus aims to review the planning education provision in European countries a decade into the 21<sup>st</sup> century and roughly a century after the first planning degrees were established. It represents a stock taking which builds on a tradition of reviews. For instance Amos et al. (1973) provided an indepth evaluation of the Education for Planning from a UK perspective, while other studies offer more international comparative assessments (e.g., Batey, 1985; Rodriguez-Bachiller, 1988; Fubini 2004; Ache and Jarenko, 2010; Scholl, 2012). Reviews typically explored both guantitative and gualitative aspects of the provision. A first global inventory of planning education (UN Habitat, 2009, p. 189), for example, estimated that as of 2008, accredited planning degrees of one sort or another were offered world-wide by at least 550 universities in 82 countries. Analyses of this data by continents showed that educational opportunities globally are not always reflecting needs. The provision is geographically uneven with 1/3 of all planning schools concentrated in Europe where less than 1/7 of the global population resides. A study by the Commonwealth Association of Planners (CAP) corroborates the inequality of provision, observing a dearth of education programmes and resultant lack of planning capacity in a number of African and Asian Commonwealth countries (Commonwealth Secretariat, 2011). Moreover, curricula and pedagogies can be outdated without providing the skills and knowledge necessary to address planning problems at hand (Lorens, 2012; UN Habitat, 2009; Watson, 2007). Akin to past studies, this appraisal will on one hand quantitatively assess the provision and spatial distribution of the provision throughout Europe. As the number of programmes, indirectly at least, substantiates a market for planning competencies we can make some inferences on the value and status of the field of planning. On the other hand, the study will seek to advance our understanding of the implications of global and, in particular, Europe-specific developments for present and future planning education provision. For example, how do the relative small programmes in planning cope with massification (Trow, 2005) and demands for performativity due to the re-alignment of government,

industry and universities? (Barnett, 2004; Etzkowitz et al., 2000); and in what ways are planning educators reconciling professional needs and educational traditions with the harmonisation of educational structures associated with the Bologna process are some of the questions that are addressed.

The remainder of the study is presented in four chapters. Assumptions and methods will be elaborated in the following chapter. Chapter three comprises a brief historical account before specifying results of the inventory. The latest developments in planning education and main drivers of change in Europe such as the Bologna declaration (1999) are discussed. Chapter four explores the character and structure of education for planning and recent developments via selected national case studies to discern differences and similarities across countries. The final Chapter summarises key points, and offers suggestions on how to secure and improve the status and profile of the profession.

## **CHAPTER 2. Approach and Methodology**

As different interpretations and definitions for planning coexist within countries and in particular between countries (e.g., Alterman, 1992; Newman and Thornley, 1996; Nadin and Stead, 2008), the study adopts a relatively broad definition of planning. In particular, we chose the European Council of Spatial Planners' (ECTP-CEU) description, whereby planning

"embraces all forms of development and land use activities. It operates in all social strata and on several inter-related spatial levels - local, rural, suburban urban, metropolitan, regional, national and international. It is concerned with the promotion, guidance, enhancement and control of development in the constantly changing physical environment in the interest of common good but respecting the rights of the individual. It makes provision for the future; helps reconcile conflicts of interest, projects physical and social change, facilitates the harmonious evolution of communities and initiates action for the optimum use of resources. It is both a management and a creative activity. It is a catalyst in conserving and developing the present and future structure and form of urban and rural areas. It contributes to the creation of the present and future character of social, physical, economic organisation and environmental quality." (ECTP, 2003)

Planners by extension assume a multitude of roles from technician and scientist to land use managers, advisors and advocates for minorities and disadvantaged, designers and entrepreneurs (ECTP, 2003). Different nations attribute greater weight to certain aspects of planning creating diverse planning cultures (Nadin and Stead, 2008; Fubini, 2004). As a consequence, planning education provision in Europe follows different educational models (Rodriguez-Bachiller, 1988) and displays a rich diversity in programme foci, degree structures, titles, and curricula.

Mindful of these national differences, the quantitative part of the review is based on an inventory of planning education programmes (undergraduate and/or master level) that offer spatial, urban or regional planning degrees which are recognised or accredited and allow graduates to formally practice the profession of planning within the context of the country where the programme is offered. For countries where there is no official recognition of planning as a profession or study field *per se* we have included programmes providing a substantial portion of planning content and which generally fulfil the basic requirements of the Association of European Schools of Planning's (AESOP) core curriculum. This approach is likely to result in an undercount as a variety of additional programmes offering planning related skills and knowledge exist that will have inadvertently been excluded.

The data collection drew on multiple information sources. The drawback of a greater variability in interpretations of what constitutes planning derived from this approach is counterbalanced by the benefit of data triangulation. A key source was the membership directory of AESOP<sup>1</sup>, an association of schools/departments/faculties offering planning degrees. Any institution that offers a planning education degree that conforms to a basic core curriculum can become a member. As membership is voluntary, the association naturally does not capture all providers. Indeed, only one provider from Russia so far has joint while others do exist (Hirt and Stanilov, 2008, p. 79). To provide a more complete picture, AESOP membership information was supplemented and cross-checked with data held by other networks and institutions such as the list of accredited planning programmes from the Royal Town Planning Institute (RTPI), a list of planning degree providers compiled by the CAP,

<sup>&</sup>lt;sup>1</sup> http://www.aesop-planning.eu/en\_GB/members-directory

membership data of APERAU (Association pour la Promotion de l'Enseignement et de la Recherche en Aménagement et Urbanisme – a network of French language planning schools) and the Turkish Planning Schools Association (TUPOB). Additionally, the authors conducted internet searches and solicited or verified information via planning educators in relevant European countries. Although every care was taken in compiling data (current as of 2012), it is impossible to offer absolute accuracy due to the constantly changing provision and language barriers.

For the qualitative perspective, narrative national case studies provide further information on recent developments in planning education provision. As far as possible each case study follows the same structure exploring a) the character of the higher education sector, b) if and how Bologna actions were implemented, c) what models of planning education exist or prevail and d) the number and names of institutions where planning is taught. In addition we sought to examine e) curricula characteristics in respect to national frameworks or prescribed learning outcomes, f) accreditation practices and routes to professional qualification, as well as g) any emerging issues and topics in planning education in the case study country. Certain elements may be absent from individual cases as they do not apply equally in all national contexts.

As planning education provision is shaped in large part by the needs of practice, which in turn are influenced by a country's planning system we selected nations which have been identified as having different models and approaches to planning following the typologies for planning systems and professional milieus (Alterman, 1992; Newman and Thornley, 1996; Nadin and Stead, 2008). In particular we chose two nations with a design based, technical planning tradition, namely Spain and Portugal, one with a comprehensive planning tradition such as Switzerland, one from a Scandinavian country, and two from Central and Eastern Europe to explore the development pathways taken post 1989. The list of case studies is completed by the UK which has not only a long history in planning education but also a unique planning system focused on land management and flexible, discretionary development control. Case studies from a range of other countries would have been useful in this context but would have exceeded the limits of this volume.

The geographical boundaries of the study region comprises the 47 member nations of the 1949 founded Council of Europe (CoE) which is next to the European Commission a major player in European integration (Figure 1). This geographical extent matches with minor exceptions the list of Bologna signatory countries as of 2012. Exceptions are Kazakhstan and Holy See which have signed Bologna but are not in CoE, and CoE members Monaco and San Marino, both home to only a single university, who have not (yet) joined the growing Bologna family.

#### Figure 1. Geographical Coverage of the Council of Europe



\* List of Council of Europe member states and year of joining; Bologna signatory countries are marked with <sup>†</sup>: Albania<sup>†</sup> (1995), Andorra<sup>†</sup> (1994), Armenia<sup>†</sup> (2001), Austria<sup>†</sup> (1956), Azerbaijan<sup>†</sup> (2001), Belgium<sup>†</sup> (1949), Bosnia & Herzegovina<sup>†</sup> (2002), Bulgaria<sup>†</sup> (1992), Croatia<sup>†</sup> (1996), Cyprus<sup>†</sup> (1961), Czech Republic<sup>†</sup> (1993), Denmark<sup>†</sup> (1949), Estonia<sup>†</sup> (1993), Finland<sup>†</sup> (1989), France<sup>†</sup> (1949), Georgia<sup>†</sup> (1999), Germany<sup>†</sup> (1950), Greece<sup>†</sup> (1949), Hungary<sup>†</sup> (1990), Iceland<sup>†</sup> (1950), Ireland<sup>†</sup> (1949), Italy<sup>†</sup> (1949), Latvia<sup>†</sup> (1995), Lichtenstein<sup>†</sup> (1978), Lithuania<sup>†</sup> (1993), Luxembourg<sup>†</sup> (1949), Malta<sup>†</sup> (1965), Moldova<sup>†</sup> (1995), Monaco (2004), Montenegro<sup>†</sup> (2007), Netherlands<sup>†</sup> (1949), Norway<sup>†</sup> (1949), Poland<sup>†</sup> (1991), Portugal<sup>†</sup> (1976), Romania<sup>†</sup> (1993), Russian Federation<sup>†</sup> (1996), San Marino (1988), Serbia<sup>†</sup> (2003), Slovakia<sup>†</sup> (1993), Slovenia<sup>†</sup> (1995), United Kingdom<sup>†</sup> (1949), Switzerland<sup>†</sup> (1963), The former Yugoslav Republic of Macedonia (1995), Turkey<sup>†</sup> (1949), Ukraine<sup>†</sup> (1995), United Kingdom<sup>†</sup> (1949) – (source: <a href="http://www.coe.int/T/e/Com/about\_coe/">http://www.coe.int/T/e/Com/about\_coe/</a> and http://www.ond.vlaanderen.be/hogeronderwijs/bologna/pcao/)

## CHAPTER 3. History, Cultures of Planning and Planning Education in Europe

Although texts on the design of cities and town extensions, the management of community life<sup>2</sup>, and planning go back centuries, planning as distinct field of study is relatively new to academia. Similar to other modern academic disciplines (e.g., biotechnology), planning is by nature interdisciplinary and focused on problem-solving. Planning education is about critically thinking about space and place making (RTPI, 2004) to inform interventions to manage and shape human environments to be liveable and sustainable. For this, the field draws widely on knowledge and approaches of professions such as (landscape) architecture, surveying, engineering, management and disciplines such as geography, social and natural sciences and economics (Davoudi and Pendlebury, 2010; Grant, 1999).

The different planning traditions and educational models (Rodriguez-Bachiller, 1988) along with nations across Europe developing planning education provision within their own temporal framework make it impossible to provide a singular historical account. Some generalisation of the approaches to planning may be possible following categories developed through comparative studies that distinguish between different planning families or cultures (Newman and Thornley, 1996) although there is no precise match. For this reason, the development of planning education programmes is recounted in a crude manner distinguishing three phases: incipient, gaining momentum, expanding. The first phase represents the beginnings up to circa 1945, while the second marks the development of a tradition of planning education (post WWII to around 1990). The third phase is characterised by an expansion of programmes, thematically and geographically, triggered by the demise of communism and growing European influences, as well as newly emerging planning paradigms. Phases one and two are covered only briefly as they are discussed elsewhere (Batey, 1985; Keller et al., 1996; Healey and Samuels, 1981). The third phase is given more weight as it provides the context to our review and assessment of the opportunities to study planning in different parts of Europe.

### 3.1. Inception: Planning Education as Post-professional Degree

Traditionally, much planning work was conducted by engineers and architects. However, during the19<sup>th</sup> century, government interventions pertaining to planning became more common. Laws and legislation such as the 1846 Bohemian building regulation and code in the Austrian-Hungarian Empire (Albers, 1997, p. 84) or the 1885 "Housing of the Working Class Act" (Albers, 1997, p. 59) in the UK represented conscious efforts to control development and land speculation and thereby guaranteeing minimum building standards for dwellings and protecting inhabitants' health. One of the first calls for the establishment of a special profession of "planners" can be found in the essay *City Plans* by the American Horace Bushell (1864):

"Considering the immense importance of a right location, and a right planning for cities, no step should ever be taken by the parties concerned, without employing some person who is qualified by a special culture, to assist and direct. Our engineers are trained for a very different kind of service, and are partially disqualified for this by the habit of a study more strictly linear, more rigidly scientific, and less artistic. The qualifications of surveyors are commonly more meagre still... Nothing is more to be regretted, in this view, than that the American nation, having a new world to make, and clean map on which to place it, should be sacrificing their advantage so cheaply, in the extempore planning of towns and cities. The peoples of the old world have their cities built for times gone by, when railroads

<sup>&</sup>lt;sup>2</sup> For example, Aristotle, *Politics - Book I;* Vitruvius (ca. 33 B.C.) *De Architectura libri decem – Books VI and VIII;* Sitte, C. (1889) *City Planning According to Artistic Principles.* 

and gunpowder were unknown. We can have cities for the new age that has come, adopted to its better conditions and ornament. So great an advantage ought not to be thrown away. We want therefore a city-planning profession, as truly as an architectural, house-planning profession. Every new village, town, city, ought to be contrived as a work of art, and prepared for the new age ..." (pp. 308-336)

Approximately four decades later, the first planning degree was established at the University of Liverpool in 1909 (Hall, 1996; Albers, 1997; Batey, 1985). This "civic design" degree as well as other similar degrees, which were started at the University of Karlsruhe (ca. 1915), and University College London<sup>3</sup> (n.d.) in 1914, was a post-professional qualification. It was aimed at architects, surveyors and engineers seeking an additional specialist qualification. Quite different from today, a planning degree in those early days was an "elitist" qualification, elevating its bearers above the traditional architect or engineer by means of skills and training for large scale work. In the case of Liverpool's civic design degree teaching was especially geared to working professionals with late afternoon and evening classes. The focus of such programmes all the way through the end of WWII was the organisation of land use, urban layout and physical design. Other aspects of planning – such as regional, economic, strategic planning, and transport/infrastructure planning were being taught within other disciplines such as geography, political science, or engineering (Amos et al., 1973), but to the best of our knowledge no specific degrees were awarded.

#### 3.2 Gaining Momentum: Autonomous Professional Degrees

Between 1946 and 1990 a substantial number of autonomous planning programmes were established in Western European countries like France, Germany, the Netherlands and the UK (Batey 1985; Frank and Kurth, 2010). The first independent planning programme in Turkey was established at Middle Eastern Technical University in Ankara 1961 (Babalik-Sutcliffe, 2012) and in Austria a 5-year diploma programme in spatial planning was established in 1970.<sup>4</sup> These programmes by and large adopted a comprehensive, interdisciplinary approach to planning education incorporating policy, economic, geographic and social sciences as new components with urban design declining in importance. Especially in the UK, planning degrees adopted a marked social science focus (Chandler, 1985) while in other countries such as the Netherlands programmes assumed different traditions (Needham, 2004, p. 416). The main difference to pre-1945 was that degrees established in this period in the main led directly to professional qualification rather than being post-professional top-up programmes. In the UK, both bachelors and masters degrees were offered while in continental Europe 4 and 5-year degrees leading to an engineering title were the norm.

Post-professional degrees continued to exist as well as the option to specialise in planning as part of a degree in a cognate discipline. In fact, opportunities to study planning as an independent professional degree did not arise everywhere in Europe. Especially in the European South (Greece, Italy, Portugal and Spain), independent degrees in planning were only established from the 1980s. And, as a focus on physical planning with a strong emphasis on design or engineering customarily prevails, most planning education is delivered as specialism route within architecture and engineering programmes until today (Gospodini and Skayannis, 2005; see 4.1 and 4.2).

<sup>&</sup>lt;sup>3</sup> http://www.bartlett.ucl.ac.uk/general/admissions/history.htm

<sup>&</sup>lt;sup>4</sup> http://www.tuwien.ac.at/dle/archiv/geschichte\_der\_tu\_wien/

Interestingly, in Scandinavia (Denmark, Sweden, Finland and Norway) the situation is not that dissimilar. There is a strong tradition of comprehensive planning practice and yet, planning is frequently still embedded within architecture, engineering and surveying programmes, despite identified shortcomings of this approach (Virtanen, 2004; see 4.3).

Especially in those countries where planning education became less design oriented, there was also a shift in the types of educators from practitioners to career researchers holding doctoral degrees – a development leading to the establishment of planning as academic discipline (Davoudi and Pendlebury 2010). On the flip side, the professionalisation of HE let to a growing gap between practice and academia often seen as problematic (Baum, 1994; Checkoway, 1998; Ellis et al., 2010).

#### 3.3 Expanding: New Developments 1990 to Present

Over the past 20 odd years, changes in planning practice (Sanyal and Rodwin, 2000; Frank, 2007), and a conceptual shift from rational planning to a communicative social learning model (Stiftel et al., 2009) as well as increasing environmental, social and economic problems related to urbanisation, have nurtured an extensive world-wide, albeit regionally contextualised discourse on the renewal of planning education curricula and pedagogy (e.g., Frank, 2006; Gurran, et al., 2008; RTPI, 2003, 2004; Brković, 2012). From a European perspective, European Union policies intended to facilitate European integration and a common labour market became important change agents. The European Spatial Development Perspective (ESDP) and its themes of spatial cohesion and coherence (Faludi, 2010) has spurred on transnational, regional and strategic planning and inspired new modules and degree programmes.

Although there has been an increase of the number of planning education programmes in Europe throughout this period it is not clear in how far this expansion stems from changes in Europe from elite to mass higher education signalling an increase of the proportion of the population obtaining a higher education degree from less than 5% to 20-30% (Trow, 2000; 2005). A proportional increase of student numbers across all fields and subjects cannot be assumed. In fact, some of the numerical growth in planning education programmes is likely due to the Bologna agreement (1999) and reforms initiating a harmonisation of education structures into three cycles across the participating nations. This led to many 5-year programme being split into first and second cycle programmes leading to a significant increase in programme numbers. In turn, this might or might not translate into a growth of planning graduates. Unfortunately data on student numbers studying planning is currently not collected in any systematic manner across Europe. The quantitative element of our review therefore focuses on institutions rather than programmes.

Within this time period, the demise of communism led to an upheaval in urban and economic planning and development requiring a review of planning approaches and education for planning in Central and Eastern Europe. In countries like Poland, Slovakia, Croatia, Albania, Romania, Bulgaria and so forth, autonomous planning education programmes started to emerge from the 1990s onward (Frank and Mironowicz, 2009; see 4.4 and 4.5). Development has been uneven, however, with some transition countries wholeheartedly embracing the idea of independent planning programmes (e.g., Poland), whereas elsewhere education opportunities for planning remain rare and continue to be associated with traditional cognate subjects (Brković, 2012).

It is the influence of the European developments on the structure, content and provision of planning education that we will focus on in this study – although, of course, they should not be viewed in isolation. Globalisation, internationalisation and universal trends towards performativity, managerialism, and commercialisation of knowledge and education associated with reduced government support for mass and universal higher education contribute likewise to changes in the HE sector (e.g., Barnett, 2004; Etzkowitz et al., 2000; Etzkowitz and Leydesdorff, 2000; Fitzgerald et al., 2012; Trow, 2005).

### 3.3.1 European Integration and Mobility

Seeds of the European project were sown early in the 20<sup>th</sup> century and started to take shape in form of limited economic alliances post WWII, but only gained momentum toward the end of the 20<sup>th</sup> century (Faludi, 2010). Relevant to higher education, from 1987 onward the European Commission (EC) promoted a set of programmes such as ERASMUS, which were to help develop a European identity amongst its residents (Sigalas, 2010) and encourage economic cooperation, innovation and cultural awareness. A key element of the ERASMUS programme is mobility support for professionals, academic staff and students under the premise that a period of study and work abroad will not only improve an individual's qualifications and language competencies but also peoples' understanding of other cultures.

Data from 2011 show that under the ERASMUS scheme 2.2 million students and 250.000 academic staff received funding for study abroad, intensive programmes, work placements and teaching exchanges between 1987-2010. Individuals and institutions from 33 countries (EU plus Iceland, Liechtenstein, Norway, Turkey and the Former Yugoslav Republic of Macedonia) participated.<sup>5</sup> Statistics are insufficiently detailed to deduce the number of planning students and academics that have participated, but anecdotal evidence suggests that planning schools are active participants at all levels (individual mobility, institutional networks, and intensive programmes) (Williams, 1989). Especially intensive programmes (IP) which offer funding for collaborative inter-institutional projects are popular with planning academics. Records from 2009/10 indicate that around 4% of all IP projects (15/385) involved planning departments<sup>6</sup>. As guidelines for IPs stipulate a minimum of three partners as well as innovative pedagogy, educators have adjusted learning outcomes and curricula to incorporate cross-national topics, multi-national group work and field research activities in a number of creative ways.

Planning academics have also engaged with the ERASMUS Mundus scheme (EACEA, n.d), which supports the development of inter-institutional master programmes. To date, schools have been successful in gaining funding for 5 (of 104) degrees, which provide planning education in new and niche areas delivered jointly by at least three institutions in different European countries (Table 1).

Program Name	Length/ Language	Partners	Description/Focus
MUNDUS URBANO	Length: 2 Years	+ Technical University	This Master seeks to train professionals
Interdisciplinary Master Course on	Language: English/ specialisations in 2 <sup>nd</sup>	Darmstadt (Germany, coordinator) the	for work in the international development context. Students are taught to conceive,

Table 1: Erasmus Mundus Programmes for Education in Planning

<sup>5</sup> http://www.goethe.de/wis/fut/uhs/en7280600.htm

<sup>6</sup> A list of 2009/10 IP projects can be found at http://ec.europa.eu/education/erasmus/doc/ip1011/comp\_en.pdf

International Cooperation and Urban Development	year in the national languages	<ul> <li>+ International University of Catalunya (Spain),</li> <li>+ University Pierre Mendez France (France)</li> <li>+ University of Rome Tor Vergata (Italy).</li> </ul>	oversee and evaluate urban projects within the framework of sustainable development. Year 1 is delivered in Germany. In year 2, students choose a partner university to develop their specialism (Spain, France or Italy).
MACLANDS: MAster of Cultural LANDScapes	Length: 2 Years Languages: French/Italian/Germ an; students need to certify French (DALF C1), Italian (CELI 3), & German (ZD) competencies Capacity: 30	+ University of Saint Etienne (France, coordinator), + Stuttgart (Germany) + Federico II of Naples (Italy)	This Master focuses on sustainable preservation, management and development of cultural heritage. MACLANDS seeks to train students in analysis, management and preservation (preventive and curative) as well as design of sustainable solutions for planning involving cultural heritage.
<i>EURMed</i> (Etudes Urbaines en Régions Méditerranéennes)	Length: 2 years Languages: Spanish, French, Italian and Portuguese. Capacity: up to 60, including 19 students from non- European countries.	<ul> <li>+ Université Paul Cézanne</li> <li>Aix-Marseille III (Co- ordinator)</li> <li>+ Universidad De Sevilla</li> <li>+ Università Degli Studi Di Genova</li> <li>+ Universidade Técnica De Lisboa</li> </ul>	This Master provides specialised education in sustainable development planning of Mediterranean coastal regions. The programme is highly interdisciplinary comprising urban and rural planning, political sciences, sociology, regional studies, geography, and architecture. Students are required to study in at least 2 partner institutions.
Planet Europe	Length 2 years, Language English Capacity: 30	+ Radboud University Nijmegen (coordinator) + Cardiff University + Blekenige Stockholm, Sweden	This Master focuses on European spatial planning, environmental policies and regional development. Students start in Nijmegen and continue their studies either in Cardiff or Stockholm.
ERASMUS MUNDUS: MA (2) in Hydroinformatics and Water Management	Length 2 years, Language English	<ul> <li>+ University of Nice - Sophia Antipolis (F),</li> <li>+ Brandenburg University of Technology at Cottbus (DE),</li> <li>+ Budapest University of Technology &amp; Economics (HU),</li> <li>+ Polytechnic University of Catalonia (ES),</li> <li>+ Newcastle University (UK)</li> </ul>	This Master prepares consultants for working on environmental and hydrotechnological projects for the public or private sector at local, regional, national and international scale.

### 3.3.2 European Spatial Planning and Degree Portability

European spatial planning, regional, transnational and European-wide (strategic) planning is becoming increasingly accepted and its impacts on national and municipal planning are being felt. The implementation of the European Spatial Development Perspective (CSD, 1999), supported through programmes and cooperation networks, provides not only economic stimuli but also platforms for knowledge creation and exchange that subtly influence approaches to regional planning and governance arrangements (Giannakourou, 2005). EU directives such as the Habitats Directive 92/43/EEC, Air Quality Directive 2008/50/EC, Water Framework Directive 2000/60/EC or the Public Procurement Directive 2004/18/EC are perhaps the measures that impact on planning most directly. The directives outline targets for, and approaches to, environmental and economic issues for which a coordinated European approach is deemed beneficial and which Member States have to implement within their national legal frameworks (e.g., Hedelin, 2005; Martin et al., 1999). In this sense, trans-European cooperation and coordination in planning, especially within the framework of territorial cohesion is already a professional reality. EU projects and programmes that require cooperation

between different institutions, cities, and regions represent an opportunity for planners to acquire supranational grants and to be mobile across national boundaries. As a result, planning education programmes at master level have begun to introduce European planning issues in curricula and a few rare programmes have been created focusing exclusively on European spatial and comparative issues. Mangels and Cotella (2012) however argued that more European planning ought to be taught and that the current provision is inadequate to prepare graduates for planning in practice environments that increasingly require them to be familiar with European planning dimensions.

The decree of free professional mobility posits interesting challenges for cross-national recognition of degrees and professional qualification which has recently been taken up by professional associations such as the European Council of Spatial Planners (ECTP-CEU). At present the profession is treated differently across nations. Its status ranges from partially regulated via self-regulated to unregulated. An ECTP-CEU working group on the Recognition of Planning Qualifications in Europe is reviewing the situation and preparing proposals on the mutual recognition of qualifications and mobility of planners across Europe (ECTP-CEU, 2013a; 2013b). The basis of recognition of planners throughout Europe has to be the recognition of professional gualifications, which is linked to planning education, curricula and the legal framework that defines who can work as a planner. The issue of context specific versus global or even European planning education has never been resolved and remains complex (Peel and Frank, 2008; Burayidi, 1993; Afshar, 2001). APERAU and AESOP have defined generic curriculum criteria but overall local context prevails with national professional bodies determining the learning outcomes and competencies for future planners in their national contexts. Possibly, European-wide agreed criteria for planning programme accreditation leading to a gualification recognised by all member states but complemented by nationally focused assessment of competencies prior to full practice eligibility may be a potential solution.

#### 3.3.3 Bologna Agreement and Higher Education Reforms

Major implications for European higher education derive from the Bologna agreement (1999), which is the culmination of an intergovernmental (non-European Union) initiative of European education ministers. The agreement, initially signed by 29 European countries, now includes 47. The aim of Bologna (1999) is to remove obstacles to (cross-institutional, horizontal) staff and student mobility associated with different degree structures and to make higher education in Europe more attractive and competitive, globally. The agreement entailed the set-up of the so-called common EHEA within which a harmonised tertiary education structure and a credit transfer system facilitates the mutual recognition of learning achievements. In addition, agreed principles of quality assurance systems provide confidence in the quality of the provision while transcripts (labelled Diploma Supplement) allow employers to compare qualifications with greater clarity. By creating three cycles of education, the reform creates more access paths and greater flexibility in higher education.

Originally the Bologna reforms were to be completed within a decade (by 2010), an ambitious target considering the stark differences in higher education systems in European countries. As many more nations signed up over time this goal became rather unrealistic and reforms are ongoing. Implementing Bologna has comparatively fewer implications for countries where already a system of multiple cycles – that is, a Bachelor (undergraduate, 3-4 years) followed by a Master (graduate, 1-2 years) - prevailed such as the UK. In many continental European countries long continuous programmes (typically referred to as undergraduate, first degree) with a minimum duration of 4-5 years depending on the type

of institution and/or country had to be entirely rethought (Westerheijden et al., 2010). Figure 2 depicts generalised education pathways for planners pre- and post-Bologna.



Figure 2. Degree Structures Pre- and Post-Bologna

Institutions in many countries have now successfully implemented the required two cycles (plus a third cycle for the doctorate) in the planning field (Ache and Jarenko, 2010). Among the group of early signatory countries, delays in implementation exist in Portugal and Spain, where legislation integrating the changes in national HE laws were introduced only in 2006 and 2007, respectively (see 4.1 and 4.2). Top-up specialist post-graduate programmes targeting professionals with a traditional first (diploma) degree or masters to gain additional qualifications over 12-18 months full-time (Gospodini and Skayannis, 2005, p. 362) which existed in many countries prior to the reform have been incorporated into the new framework as second cycle degrees or CPD certificates depending on the number of credits. Throughout Europe, doctoral studies on topics relevant to planning were and are possible. They typically require at least 3 years of full-time study. The degree title may or may not be under the auspices of planning, but architecture or geography instead, again depending on the national framework. One could argue that it would be helpful for the recognition of the field to have planning as a free-standing research degree but this may only be achievable in the longer term.

One of the ideas of Bologna was that first cycle degrees would prepare students sufficiently for employment. Yet, for planning as well as architecture or engineering, professional bodies and associations in many nations, with the exception perhaps of Finland, have resisted this concept (Frank and Kurth, 2010). Some academics have equally condemned the reforms (e.g., Kunzmann, 2004) voicing fears that the quality of qualifications will decline due to a less coherent and shorter education.

In contrast, Frank and Kurth (2010) have argued that for an interdisciplinary profession like planning there may also be advantages as the new arrangements allow for the accumulation of more interdisciplinary knowledge and skills, something that Scholl (2012) also endorses.

In sum, the idea of an entirely flexible approach where students can freely change subjects after the first degree has not been achieved, particularly in professional subjects. In planning, this has led to the creation of different routes to a planning qualification in the two cycle system. In many countries entry onto a planning master is restricted to applicants with a background in planning or cognate field such as geography, or architecture. This can be seen as a sort of 'specialisation' (that existed within the 5 year degree) made explicit. Decisions, whether a student will be accepted or not may be made on a case by case basis or following particular criteria where students are allowed to enter a planning master with any degree that matches a certain percentage of the compulsory credits from a planning bachelor. A few countries allow students to enter a planning master with any bachelor degree but typically distinguish then between consecutive and non-consecutive Master programmes. In order for students to be accepted onto a consecutive (UK: specialist) masters they have to hold a first degree in planning. Students, who hold a first degree in a field other than planning, are only allowed to enrol in a non-consecutive (UK: spatial) planning master.

An unintentional effect of the reforms has been a decline of individual ERASMUS student mobility. Especially, at Master level, where programmes are exceedingly condensed into 12 or 18 months there is little time and opportunity to study abroad. Students can apply for mobility support at the earliest in the first semester and they will be toward the end of their second semester when receiving approval. This would allow only for doing the Master theses abroad which often puts greater requirements on students (such as securing two supervisors: one each from the *Alma Mater* and the hosting institution). Considering that ERASMUS mobility is an EU programme but the Bologna agreement an intergovernmental initiative unexpected side effects may not be surprising – although Keeling (2006, p. 208) highlighted that the EC nevertheless has played an active role in shaping Bologna from the start and used it as a vehicle to mainstream its own solutions. One educational response to redress the issue of limited mobility opportunities has been a greater focus on IP programmes; another is to integrate mobility into the curriculum instead of having students organise it themselves although this will reduce no doubt certain learning experiences especially linked to students' personal development.

There are also a growing number of universities teaching in English. Whether this is related to Bologna or a drive for global competitiveness is unclear. It will in any case facilitate mobility and make European higher education more attractive globally. For a context-specific profession such as planning, however, non-native language education will widen the gap between planning practice, education and academic research and Legal traditions and the local cultural context are deeply rooted in language. Anybody trying to translate planning concepts from one language to another can attest to this. Practitioners are unlikely to access research published in English while academics will struggle to publish accessible local language texts as well as quality English language research articles in an increasingly time pressured environment. Sadly, there is little hope to reverse this trend (Kunzmann, 2004) which will impede effective the university-industry knowledge transfer deemed essential in today's society (Etzkowitz, et al., 2000) in certain countries as a result. The challenge is how to embed important local context (not only local case studies) and make students truly benefit from intercultural exchange. Indeed some employers have identified competencies in several languages as highly advantageous for working in private planning consultancies (Greif, 2012, p. 122).

On the positive side, Bologna helped progress the development (and implementation) of an EHEAwide framework for quality assurance (Schwarz and Westerheijden, 2004; Westerheijden et al., 2010; Frank et al., 2012). While national sovereignty on implementation has been ensured, it has in some countries initiated a debate on requirements for planning education and the establishment of nationally universal criteria for planning education degrees. It also has opened a window for a wider debate of curriculum requirements across national boundaries.

Overall, the Bologna reform can be considered a success, despite creating much turmoil (Frank and Kurth, 2010). The 2010 report of the anniversary Bologna conference acknowledges the need for further work to nurture progress and address remaining problems (Weltgruber and Csekel, 2010). For example, while there is a common system of credits not all institutions have yet implemented it locally, or they have implemented a different version which leads to problems in credit transfer and recognition. Problems are also created by different semester starting dates and teaching periods. Yet, Adelman (2008) notes that many ideas such as the Diploma supplement, different access routes to higher education, a uniform currency of credits allowing accumulation and the establishment of a quality assurance framework are practices for other regions to emulate. Similar reforms are contemplated to be introduced throughout Africa (Weltgruber and Csekel, 2010).

### 3.4. Overview of European Planning Education

This study sought to compile information on the number and characteristics of planning education providers and, as far as possible, on pedagogies, delivery modes and emerging new knowledge and skills areas in curricula. We also looked at networking opportunities amongst providers. Information below is complemented by a detailed list of institution and programmes in the online resources, and auxiliary information in the national case studies (Chapter 4).

### 3.4.1 Number of Planning Schools and Regional Distribution

Data from 2011/12 indicates that at least 218 institutions<sup>7</sup> in the 47 Council of Europe member states (plus Kosovo) are offering planning education in one form or another. With the exception of very small nations such as Liechtenstein, Monaco, Luxemburg, San Marino or Andorra and seven countries for which no verifiable information could be obtained, some planning education is provided by at least one institution in each of the remaining 36 countries (Table 2). Merely focusing on institution numbers we defined three categories of provision for planning education corresponding to a population (in million)/institution ratio of less than 5 (good to excellent), between 5 and 10 (medium) and greater than 10 (underdeveloped).

Accordingly, good to excellent per capita provision of interdisciplinary, professionally orientated planning education programmes exists in 26 countries including France, the Netherlands, Italy, Ireland, Finland, Denmark, Norway and the United Kingdom. For example, in the UK we find 28 universities that offer a proliferation of professionally accredited degrees; there is also an institution which is satisfying the AESOP core curriculum requirements for membership but not the more narrowly defined RTPI criteria. This results in a population to institution ratio of 2.2. In Central Europe, the picture is mixed with some countries offering very good professional, interdisciplinary provision such as Poland and Estonia but also countries where planning is only a specialisation within architecture, surveying, or

<sup>&</sup>lt;sup>7</sup> Not all institutions contributing to Erasmus Mundus degrees in planning are counted as some merely provide specialist modules and not full planning programmes

geography, e.g. Slovenia, Macedonia or the like and while they still satisfy the ratio ranking the quality of the education may be less comprehensive.

A medium level provision has been calculated for five countries, that is Turkey, Slovakia, Serbia, Bulgaria and, perhaps surprisingly Germany. This may be caused by relative large planning schools in respect to student numbers and a tradition in the south of Germany to provide planning education predominantly as specialisation of architecture (Frank and Kurth, 2010). An underdeveloped provision has been detected for Hungary, Romania, Russia, Spain and the Ukraine, although, this assessment is based on rather sparse information particularly for Russia or the Ukraine. Some institutions are said to offer programmes and new curricula have been developed with the support from Western academics (Hirt and Stanilov, 2008; Forsyth and Gross, 1998). However, Vaytens (2012, p. 188) asserts that planning education in Russia consists mostly of urban design taught in architecture schools.

Country	Institution s	Pop (mio)	Ratio Pop:Inst	Country	Institutions	Pop (mio)	Ratio Pop:Inst
Albania	3	3	1	Lithuania	1	3,5	3,5
Andorra	0	0,08	-	Luxembourg	0	0,5	-
Armenia	1	3	3	Malta	1	0,4	0,4
Austria	3	8,2	2,7	Moldova	Nd	3,7	-
Azerbaijan	Nd	9,5	-	Monaco	0	0.03	-
Belgium	3	10,4	3,5	Montenegro	Nd	0,65	-
Bosnia & Herzegovina	Nd	4,6	-	Netherlands	9	16,7	1,5
Bulgaria	1	7	7	Norway	7	4,7	0,7
Croatia	1	4,5	4,5	Poland	40	38,4	1
Cyprus	Nd	1,1	-	Portugal	9	10,8	1,1
Czech Republic	3	10,2	3,4	Romania	2	22,9	22,9
Denmark	2	5,5	2,7	Russian Federation	8	138	17,3
Estonia	2	1,3	0,6	San Marino	0	0,03	-
Finland	4	5,3	1,3	Serbia	1	7,3	7,3
France	20	65,6	3,3	Slovakia	1	5,5	5,5
Georgia	Nd	4,6	-	Slovenia	1	2	2
Germany	10	81	8,1	Spain	3	47	15,7
Greece	6	10,8	1,2	Sweden	7	9	1,5
Hungary	1	10	10	Switzerland	7	7,7	1
Iceland	Nd	0.3	-	The former Yugoslav Republic of Macedonia	1	2	2
Ireland	3	4,7	1,5	Turkey	12	80	6,6
Italy	12	61	4,7	Ukraine	1	45	45
Latvia	1	2,2	2,2	United Kingdom	29	63	2,2
Lichtenstein	0	0,04	-	Kosovo (not CoE)	1	2	2

Table 2. Institutions offering Planning Education in Europe

Nd =no data, Pop: Institution ratio <5 : good to excellent, Pop: Institution ratio 5 to 10: middling, Pop: Institution ratio >10: underdeveloped

#### 3.4.2 Institutional Characteristics

Planning degrees are offered through a wide range of academic schools and faculties ranging from architecture to the social sciences. Only in a few rare cases has planning managed to carve out its own (intellectual) space as with the Faculty of Spatial Planning at the University of Dortmund (Germany) which brings with it both opportunities and challenges (Frank, 2012).

The majority of planning education is delivered through public institutions, which form the backbone of higher education in Europe. Institutions usually have considerable autonomy, a right to self-governance and academic freedom although this is increasingly constrained via regulations, government demands for relevance of research and performance measures attached to funding arrangements (Fitzgerald et al., 2012). Following a Humboldtian tradition, institutions engage in both, research and teaching, albeit to varying degrees. It is common to distinguish between research-oriented and practice-based teaching institutions, or between institutions focusing on technical subjects and those specialising in humanities or arts. Naming conventions are country-specific and can be misleading. It is prudent not to make assumptions of equivalency when comparing cross-nationally. For example, in the UK former polytechnics, also known as "post-92 universities", are considered teaching-oriented institutions, while in other countries a similar sounding label Politechnika (Poland), or Politecnico (Italy) is used for top-ranked (technical) research universities. Planning is taught at research and practice oriented institutions alike.

Across Europe, national policies for privately delivered higher education range from conservative and a constitutional ban on establishing private universities (Greece) to a neoliberal approach that readily permits the creation of private institutions of higher education (e.g., Poland, Portugal, Spain). In contrast to the USA, private HEIs in Europe are typically less well regarded, small and specialised. They tend to run programmes such as marketing or business studies which do not require major investment in physical infrastructure while attracting large student numbers. Especially in post-communist countries the introduction of private HEIs in the 1990s helped to satisfy the exploding demand for tertiary education without further burdening government resources.

In Poland, for example, the number of higher education institutions nearly quadrupled from 124 (1992/3) to 470 (2010/11) due to the newly founded private HEIs (Central Statistical Office, 2011). Although, public institutions still provide the majority of study places, private HEIs educate now about 25% of all Polish students. They are also increasingly entering the planning education market. In 2008/2009 only 3 private HEIs in Poland were running planning programmes, whereas in 2011/2012 this grew to 19. A mixed provision of planning education through public and private HEIs can also be observed in Portugal and Albania.

There are stark differences in cost and access to higher education across Europe. Although, the UN International Covenant on Economic, Social and Cultural Rights (Article 13) as well as Article 2 of the First Protocol of the European Convention on Human Rights obliges all signatory countries to guarantee the right to (free) education, this usually applies only to primary and secondary education. Tertiary education is generally considered non-compulsory. Thus, universities can select which students they accept based on criteria such as entry exams, interviews or grades. The policy on tuition for higher education varies. In a few countries the right to free education extends to university level (i.e., Greece, Finland, Norway), in others a mixed system has been implemented (i.e., in Poland or Spain where public universities charge no fees while private institutions do), and yet in other of nations

all institutions are charging fees (i.e., UK or the Netherlands). Regardless of national policies all students from EU member states must be treated equal to students of the country where an institution is located. Peculiarly, there is no clear interpretation whether free tertiary education applies only to Bachelor or also to Master level education. In Greece, first cycle higher education is free, but universities charge students for the second cycle. PhD students successfully sued universities (Skayannis, 2011) for free provision of doctoral studies. As a result, first and third cycle studies in Greece are free, whereas students have to pay for second cycle degrees.

The size of planning programmes varies from an annual intake of 10-15 students to 100 and more. In many countries core university staff members (full-time) are expected to hold a doctorate, whereas practice-related teaching is covered by part-time tutors working in practice. In teaching and practice oriented institutions the proportion of teaching covered by part-timers can be substantial.

#### 3.4.3. Curricula, Delivery Modes, Pedagogy and Emerging Content

There are no common core curricula or even universally agreed guidelines for planning education. The content of curricula is generally shaped by the overall approach toward planning. Especially, the level of design teaching differs greatly. Southern Mediterranean institutions tend to follow an urbanism tradition with a strong emphasis on urban and physical planning practice and education (Dühr et al. 2010, p.181) although this is changing gradually (Balducci et al, 2011; Giannakourou, 2005). In French and UK based programmes we find far less design teaching in planning due to their land management and strategic approaches in planning. Results from a recent study show considerable differences when comparing curricula in Europe along eight components (planning theory, planning techniques, social/economic environment, built environment, natural environment, planning products, planning instruments and thesis). For example, the proportion of planning curricula dedicated to teach planning techniques ranges from 2% to 39% and knowledge provision in respect to natural environmental factors ranges from 3% to 17% for selected exemplary programmes (ECTP-CEU, 2013b).

As for the purpose of planning we can detect an ever greater pluralism. In particular, the liberation of Central and Eastern Europe sparked a discourse which variably highlighted ecological, to place based, market-oriented, communicative, pragmatic, or socially responsive paradigms (Gospodini and Skayannis, 2005; Keller et al., 1996). Key themes in most European planning education programmes include urban renewal, (brown field) regeneration and shrinking cities, sustainability, environmental issues with related methods and techniques such as environmental impact assessment. New emerging topics are the link between planning and health, planning and food (security), and planning for continuous or abrupt changes in the environment and resiliency, planning for low carbon, energy efficient cities and European planning (Morgan, 2009; Blanco et al., 2009a, 2009b). While national legal frameworks increasingly require citizens involvement in planning decisions and research evidence suggests that community planning can be highly effective, teaching of community involvement and participatory techniques as part of planning from communism to capitalism, planning practitioners (and future planning graduates) need planning skills in managing illegal and uncontrolled development and uncertainty.

Associations like APERAU and AESOP have developed criteria and learning outcomes on which they evaluate and judge membership applications and/or accredit planning programmes (Figure 3), but these are stated at a rather conceptual level to allow for the incorporation of specific guidance at

national level for programme and professional accreditation. Undergraduate programmes in planning typically introduce students to the basic concepts of urban and spatial planning. At master level two models can be observed: a specialist curriculum (e.g., MSc in Spatial Analysis and Environmental Management) primarily for students having already some spatial planning (or related) background or a generalist curriculum (MSc in City and Regional Planning) (see also 3.3.3). As a rule, master degree curricula have a more theoretical profile and focus on developing students' research skills.

Figure 3. AESOP's core curriculum (Geppert and Verhage, 2008. pp. 24-25)

#### Acquire due knowledge on

- the nature, purpose, theory and method of planning;
- the history of planning as an institution and a profession;
- the cultural differences in planning on a European and international level;
- developments in the natural and anthropogenic (economic and social) environment and knowledge of the impact of men's exploitation, i.e. possibilities for sustainable development
- the political, legal and institutional context of planning practice both at the national level and at the (evolving) international i.e. European level
- the instruments and performance of instruments for implementing planning policies
- specialized fields in planning
- relationships across and between these fields

#### Develop practical competence in

- methods for problem definition and collaborative problem-solving in interdisciplinary and multidisciplinary settings
- thinking in terms of concepts, instruments and measures and management of knowledge for practical application
- techniques for data collection, for data analyses and synthesizing, including modern information technology
- valuing and managing the built and natural environment
- anticipating future needs of society, including the appreciation of new trends and emerging issues in planning
- methods for generating strategic planning proposals and the advancement of implementation
- integrating aesthetic and design dimensions in planning proposals
- devising plans, programmes and measures and guiding the implementation policies
- written, oral and graphic communication

#### Develop an attitude for

- planning to be basically oriented towards solving the needs of society within the framework of sustainable development
- the cultural embedding of the man-made environment
- the value dimension of planning
- the ethical implications of planning.

The degree to which specialisations are captured in programmes and their visibility differs. In part, this is a function of the way degrees are named and marketed. For example, in the UK, Ireland or Greece programme foci, especially at Master level, are readily discernible from programme titles, whereas elsewhere themes become only apparent through different specialisations under general degree labels.

Pedagogically, planning programmes incorporate a wide variety of teaching methods. The balance between classical formats such as lectures, seminars and design studios or project work varies. Some master programmes have adopted large integrative projects as signature pedagogy (Peel, 2011) seeking to offer students a simulated practice setting. Projects may be client-based ('life') projects whereby students are directly engaged in developing a solution to a contemporary problem in a locality or community. Group work is common and interdisciplinary modules are explored on occasions (Ellis

et al., 2008) but not standard. Some programmes also include assessed periods in practice of different lengths as a means to complement theoretical knowledge with practical professional skills development. Practically all planning education programmes in Europe are residential programmes, which can be studied either full- or part-time. Programmes increasingly employ blended learning but this does not change the main delivery mode of face-to-face instruction. One exception is the Joint Distance Learning MA in Town and Country Planning, established in 1985 and delivered through a consortium of four UK planning schools together with the UK's Open University (see 4.6). Universities also employ more and more block teaching to cater for professionals' and their needs (Keller and Blaser, 2005). As one would expect, planning is taught in many different languages, yet, especially at universities in Northern Europe<sup>8</sup> there is a trend to teach at master level partially or entirely in English (see 3.3.3).

Post 1989, Kunzmann (1991) detected a change in focus of planning education and research by European providers away from international and development planning toward Eastern Europe and European affairs. On one hand the demise of communism created a new set of interesting topics and issues for planners and on the other, many developing countries started to develop their own capacities in planning education. Nevertheless, a range of institutions still offer international development planning degrees at postgraduate or master level, mostly taught in English. UK programmes have been and remain attractive to students from the developing world (Godfrey and Glasson, 1997). As of 2012 six UK planning schools offered degrees in this area: Cardiff University, MSc International Planning and Development: London South Bank University, MA in Spatial Planning in Developing Countries; Oxford Brookes University: MSc Urban Planning in Developing and Transitional Regions; University College London, MSc International Planning; The University of Sheffield, MA International Development and Planning; University of Westminster, MA International Planning and Sustainable Development. In the Netherlands, the MSc in Geographic Information Management and Application provided jointly by four Dutch institutions seeks to educate GIS specialists including those from abroad.<sup>9</sup> One of the partners, the International Institute of Geo-Information Science and Earth Observation (Enschede), specialises in capacity building for participants from economically and/or technologically less developed countries through postgraduate programmes which alternate short intensive face-to-face classroom periods with extended periods of self-study. The Technical University of Dortmund (Germany) runs an International Joint Degree, the MSc Spatial Planning for Regions of Growing Economies (SPRING) since 1984 in partnership with universities in Ghana, Tanzania, the Philippines and Chile. In 2007, Portuguese universities started short intensive programmes for Portuguese speaking countries in sustainable planning and the Mundus Urbano (see 3.3.1) also caters for people aspiring to work in international development. A new trend is to deliver programmes at European Institution's foreign campuses or in cooperation with allied institutions locally in China, Asia-pacific countries or the Arab world rather than bringing foreign students in great numbers to European institutions. Planning education programmes are so far not the main subjects but some exist.10

#### 3.4.4. Academic and Professional Networks

<sup>&</sup>lt;sup>8</sup> See for example: Delft University of Technology, Department of Urbanism (The Netherlands) or Royal Institute of Technology (KTH), Division of Regional Planning, Stockholm (Sweden)

<sup>&</sup>lt;sup>9</sup> http://www.msc-gima.nl/index.php/distinguishing-features

<sup>&</sup>lt;sup>10</sup> http://www.xjtlu.edu.cn/en/admissions/postgraduate/masters-degree/programmesmaster-degree.html?layout=edit#10

Networking is important for any field to progress ideas, disseminate research, exchange experiences, benchmark guality standards and stimulate innovations. Many, but not all, institutions offering planning education in Europe are members of one or more (international) planning schools associations. Two of the largest networks are AESOP founded in 1987 with nearly 150 European members, and APERAU. The latter caters to institutions providing planning education in French with 20 schools from France and other French language regions in Europe as well as additional members from North Africa, Canada and Asia. Associations organise conferences, summer schools for students and planning professionals, workshops for PhD students, prizes for papers and teaching, and offer a platform to advertise jobs, publications and education programmes. AESOP's effort to recruit schools from Eastern European countries (e.g., Russia, Ukraine, Latvia, etc.) has had only limited success to date (Bachanowicz, 2012). Other European regions with low membership in international associations are Spain, the Western Balkans and Turkey (although the Turkish Planning Schools Association – TUBOP - offers a national platform for exchange). Costs, language, and politics have been identified as factors contributing to the low take-up of membership. Lack of understanding the value of membership may prevent schools from joining although many Central European countries have found their participation in international networks invaluable for the development of their programmes (Frank and Mironowicz, 2009). Overall there is partial overlap between the geographical coverage of APERAU, AESOP and TUPOB. Some institutions maintain dual memberships. Both AESOP and APERAU were founding members of an international network of associations established in 2001, the Global Planning Education Association Network (GPEAN) which seeks to foster communication and exchange amongst planning educators and researchers, globally (Stiftel et al., 2009).

Additionally, many schools also maintain links with professional associations and societies at national and international level such as ECTP-CEU. Some professional bodies are involved in programme accreditation, but in other cases this is a task taken on by the state. There are also countries where planning schools are free to develop curricula as they see fit without being bound by accreditation guidance.

## **CHAPTER 4. Country case studies**

The case studies below provide descriptions of the education for planning in seven European countries (Portugal, Spain, Finland, Poland, Slovakia, United Kingdom and Switzerland). The cases offer insights into how the planning education provision has been influenced and altered through European policies, the Bologna declaration, and general trends affecting the higher education sector more generally. The two case studies from different transition countries (Poland and Slovakia) illustrate that the approaches to adapting and developing the provision for planning education post communism diverge. We have also included a set of two countries with a technical urbanism and design focus in respect to planning to explore if pathways for future development of planning education would be predictable in the context of European drivers. Finland, United Kingdom and Switzerland were chosen to complete the range of planning families and traditions identified by comparative studies of European planning traditions (Newman and Thornley, 1996).

Case studies are narrative and follow a simple template with a preamble, an overview of the higher education structures in the country concerned, the history of planning education and a section on the current planning education provision. This section covers issues such as guidelines or curriculum requirements, undergraduate and postgraduate provision as well as continued professional development and doctoral education opportunities. As there are considerable differences amongst countries not all subsections of the template are equally applicable. While each case concludes with a brief summary, the wider discussion has been reserved for Chapter 5.

## 4.1 Portugal

Planning in Portugal, although widely practiced, is not fully recognised as an independent profession. Education for planning exists but remains to large extent (albeit not entirely) a specialization or specialist stream within architecture or civil engineering. The provision reflects the dominant character of planning practice which typically emphasises blue print plans, morphology, physical layout and aesthetical concepts over socio-economic or regional science-based approaches (e.g., Rodriguez-Bachiller, 1988). Although graduates holding autonomous planning degrees are slowly emerging in key positions, the majority of individuals in senior planning posts are still architects and civil engineers complemented by the occasional geographer and landscape architect (Correia, 2004).

The social status of the profession has seen significant ups and downs. It was, for example, prestigious to work as a planner during the 1980s when Portugal joined the European Economic Community (EEC). At that time, legislation in Portugal instigated that plans had to be produced for all Portuguese municipalities and town centres (Correia, 2004) which made planning an important technical and political task for local governments. Deregulation policies of the 90s had adverse effects on the reputation of the profession but similar to elsewhere a rising awareness of environmental problems and a need to develop plans for sustainable urban and rural environments has helped to recover the image of planners and planning.

### **Higher Education Structures**

In Portugal, as of 2011, there were 28 institutions of higher education (13 universities and 15 polytechnics which developed from former industrial, administrative or vocational schools); they are either public (state-run), or privately (including church) operated. The major centres for higher education are Lisbon and Porto, although new higher education institutions were established in late 1970s and 1980s in secondary towns such as Minho, Aveiro, Évora, Nova de Lisboa, Trás-os-Montes and Beira Interior to enrich the Portuguese higher education landscape.

The implementation of Bologna reforms was slow and up to 2005/6, universities offered only programmes, which followed the standard continental structure leading to a degree equivalent of a Masters (Dima, 2005) over 4 to 6 years. Many universities have since restructured their degrees offering a first cycle Bachelor of three years (180 ECTS) (Portuguese: *licentiatura*) and a second cycle Master degree (90-120 ECTS) (Portuguese: *mestrado*). Confusingly, a number of institutions also kept the traditional long-cycle programmes running in parallel. A trend from 2005 onward has been to discontinue undergraduate planning degrees and offer only Masters. Moreover, a number of programmes that run specializations in planning within the first cycle (undergraduate) have dropped these in the process of restructuring focusing only on the parent or main discipline such as geography, engineering or architecture. It seems that the Bologna reform in Portugal has led to a reduction of the provision of planning education, especially at the Bachelor level.

### **History of Planning Education**

First elements of formal planning education emerged in Portugal in the mid-1940s, when optional onesemester modules in planning were introduced by three universities, including *'Improvements in Urban Planning'* at the University of Porto (Faculty of Engineering), and *'Urbanology'* at the College of Fine Arts in Lisbon and Oporto (dos Santos, 1998; Lourenço, 2003). It then took nearly 30 years until in 1973 the first specialisations in (spatial) planning were approved within the Civil Engineering programme at Lisbon Technical University (Correia, 2004) and at the University of Porto. In 1980, a 4year undergraduate programme in geography with a specialisation in regional planning was established at the University Nova de Lisboa in the Faculty of Social Sciences. Finally, in 1982 and 1983, respectively, the first autonomous planning programmes were established: a 2-year postgraduate degree in urban and regional planning at the Technical University of Lisbon (Instituto Superior Técnico) (Correia, 2004; dos Santos, 1998; Lourenço, 2003) and a 5-year degree in urban and regional planning at the University of Aveiro.

From thereon, opportunities to obtain an education for planning became more plentiful either via:

- 1) autonomous programmes in planning as first degree level (4-5 year programmes),
- 2) post-graduate/postprofessional programmes (1-2 years), and

3) specialisations within architecture, geography or civil engineering degrees, both at undergraduate and master level (Lourenço and Klein, 2001; Lourenço et al, 2007).

### **Planning Education Now**

Developing a comprehensive overview of the provision of planning education in Portugal is difficult due to the variety of ways to obtain a degree in planning and the fact that even today Bologna related restructuring of programmes is not completed. Table 3 lists the programmes offered in the academic

year 2010/2011. While there are 10 institutions offering education for planning, only one (private!) institution - University Lusófona de Humanidades e Tecnologias in Lisbon – runs at the moment an autonomous programme in planning at the Bachelor level (3 years, 180 ECTS). The other two institutions (University of Azores; Lisboa Technical University) offer merely undergraduate degrees with a planning specialisation option. The remainder of planning education programmes are at master level as this fits better with the institutional and legal framework of Portuguese higher education.

Institution	Bachelor/1st cycle	Master/2 <sup>nd</sup> cycle	AESOP
University of Aveiro		Urban and Regional Planning (Masters, 2 yrs) <sup>11</sup>	yes
University of Minho		Master in Urban Engineering (Masters, 2 yrs)	
University of Porto			
(Faculty of Engineering and Architecture)		Civil Engineering with specialisation in Planning (Masters, 2 yrs) <sup>12</sup>	yes
University of Coimbra		Civil Engineering with specialisation in Transport & Urban Planning (Masters, 2 yrs)	
Lisbon Technical University (Faculty of Architecture)	Architecture: with specialisation in Urban & Regional Planning (Bachelor, 5 yrs) Architecture: with specialisation in Urban management (Bachelor, 5 yrs) <sup>13</sup>		yes
Technical University Lisbon (multiple faculties including Architecture, Social and Political Sciences, Economics, etc.)		Master in Territorial Planning (Masters, 2 yrs)	yes
Lisbon New University		Human Geography and Regional Planning – Territorial Management (Masters, 2 yrs)	yes
University of Lisbon		Human Geography, Urban and Regional Planning (Masters, postgraduate, 1 yr)	yes
University of Azores	BA in Environmental Management and Engineering (3 yrs)	MA in Nature Management and Conservation (2 yrs)	
	BA in Nature Management and Conservation (3 yrs)	MA in Environmental Engineering (2 yrs)	
		MA in Landscape, Biodiversity and Society (2 yrs)	
University Lusófona de Humanidades e Tecnologias in Lisbon (private institution)	Bachelor in Planning (3 yrs)	Master in Planning (2 yrs) <sup>14</sup>	yes

Table 3. Planning Education Programmes in Portugal in 2010/2011

<sup>&</sup>lt;sup>11</sup> http://www.ua.pt/ensino/PageCourse.aspx (accessed August 2012)

<sup>&</sup>lt;sup>12</sup> http://sigarra.up.pt/feup\_uk/cursos\_geral.FormView?P\_CUR\_SIGLA=MIEC (accessed August 2012)

<sup>&</sup>lt;sup>13</sup> http://www.fa.utl.pt/index.php?option=com\_content&task=view&id=505&Itemid=27 (accessed August 2012)

<sup>&</sup>lt;sup>14</sup> http://www.ulusofona.pt/index.php/pt/escolas-faculdades-e-institutos/faculdade-de-ciencias-sociais-e-

humanas/mestrados/mestrado-em-urbanismo-2%C2%BA-ciclo.html (Accessed August 2012)

### **Guidelines and Accreditation**

Higher education provision in Portugal is regulated and accredited by the Ministry of Education on the basis of state approved guidance and standards. For civil engineering or architecture programmes, accreditation is conducted through government-recognised professional bodies and their respective National Boards (NB of Civil Engineers, NB of Architects). Professional bodies regulate the profession and approve legally recognised professional titles. Three professional planning associations exist: the Portuguese Association of Town Planners, the Portuguese Association of Spatial Planners, and the Professional Association of Portuguese Urban Planners, but while they have been collaborating to gain National Board status for planning and legal recognition of the profession, they have not succeeded to date. As a result, the Ministry of Education has not issued state guidance and standards for planning.

With no National Board for planners and no guidance and standards for planning education, universities teaching planning are theoretically free to develop curricula as they see fit. However, this freedom comes at a price: there is no legal framework to accredit planning programmes. As students favour accredited programmes, planning is at a distinct disadvantage. Therefore, universities usually try to develop planning curricula, which meet the framework requirements as defined by the NB for Engineers or Architects for programmes in engineering or architecture. These requirements provide guidance on minimum numbers of credits associated with particular categories of knowledge (preparatory, technical or design). The differences in the weighting of these knowledge categories for Architecture and Civil Engineering are considerable at undergraduate level but become relatively minor at master level. Overall, in architecture more focus is placed on design, whereas in civil engineering technical aspects receive greater weighting (Table 4).

In addition to following framework requirements from the NB of Architects and Civil Engineers, planning programme providers have also extracted learning outcomes from guidelines of cognate fields such as Architecture (ARCH), Landscape Architecture (LAND), Economics (ECON), Engineering (ENG), Environmental Studies (ENV), Geography (GEO), and Sociology (SOC) to define a pseudo core curriculum for planning masters. This list serves as informal guide and quality assurance benchmark (Figure 4).

	Architecture	Civil Engineering
Bachelor	ECTS	ECTS
Preparatory: Basic science and drawing	80	70
Technical: Building, structures and infrastructures	50	100
Design: Composition, projects and urban planning	50	10
Total	180	180
Master		
Technical section: Building. Structure. Infrastructures	50	60
Design section: Composition. Projects. Urban Planning	40	30
Master Thesis	30	30
Total	120	120

# Table 4. Framework Structure and Requirements for Architecture and Civil Engineering Programmes in Portugal

#### Figure 4. Key Learning outcomes, knowledge and skills for Masters in Planning in Portugal

- 1. Spatial representation systems applied to the built environment and planning (ARCH, ENG, GEO)
- 2. Basic topography, hypsometry, mapping and land modification techniques (ARCH, ENG, GEO)
- 3. Real estate management (ECON, ENG)
- 4. Conception, practice and development of urban projects (ARCH, ENG)
- 5. Functional programmes for urban spaces (ARCH, ENG)
- 6. Intervention, conservation, restoration and rehabilitation of built heritage (ARCH, ENG)
- 7. Urban mobility, traffic management and circulation (ENG)
- 8. Protection of built and urban heritage (ARCH, ENG)
- 9. Assessment tools and evaluation methods for public policies (ENG, GEO)
- 10. Design and implementation of urban design and development projects (ARCH, ENG
- 11. Planning ordinances Planning systems (ARCH, ENG)
- 12. Environmental studies, landscape and environmental impacts mitigation (ENV, GEO, LAND)
- 13. General theories on form, composition and architectural types (ARCH, ENG)
- 14. Studies on social needs, quality of life, liveability and housing (ARCH, ENG, GEO, ECON)
- 15. Ecology, sustainability and conservation of energy and environmental resources (ENV, GEO, ENG, LAND)
- 16. Urban and regional planning and landscape traditions in Western culture and their technical, climatic, economic, social and ideological underpinnings (ENG, ARCH, LAND)
- 17. Architects cultural patterns and social responsibilities (ARCH)
- 18. Urban sociology, theory, economics and history (ECON, SOC)
- 19. Urban, regional and metropolitan planning methodological principles (ENG, GEO, ARCH)
- 20. Urban planning drawings and plan management (ENG, ARCH)
- 21. Civil, administrative, planning, building and industry regulations related to professional practice (ENG, ARCH)

#### Master in Planning

Within the framework requirements (Table 4) and the list of learning outcomes (Figure 4), considerable freedom and flexibility remains to develop master programmes in planning. This is illustrated via three exemplary programmes from the University of Aveiro, Lisbon Technical University, and the University of Minho (Table 5). The dearth of practice-oriented modules corroborates Correia's (2004, p. 437) statement about the theoretical focus of Portuguese higher education. Project work or placements are only listed for the *Master in Urban and Regional Planning* at Aveiro, and the *Master in Territorial Planning* at Lisbon. In both cases this element takes up only 10% of the programme. Another characteristic is the lack of optional courses with practically none for the *Master in Territorial Planning* at Lisbon (although keen students can widen their knowledge by taking additional credits) and while there are specialisation streams available for the Master at Minho, within these streams there is no choice. The credits for Master Thesis vary from 21 to 60 ECTS suggesting significant differences in research expectations at different institutions. Further examples of curricula offering planning as a specialisation within Masters of Civil Engineering and Architecture are provided in the online resources (Tables 2 to 4).

	Technical University Lisbon: Master in Territorial Planning <sup>15</sup>						
	Total ECTS	Duration	Course	ECTS			
			Law of Urbanism and Environment	4,5			
			Traffic Engineering	6			
			Management and Evaluation Systems and Projects	6			
			Urban Planning	4,5			
			Seminars on Sustainable Development	3			
			Urban Sociology	3			
			Theories and History of the City	3			
S			Urban and Regional Economics	3			
dule			Communal Facilities	3			
om			Urban Management	3			
ory		One	Environmental Impacts	6			
Compulsory modules	120	Semester	Met-Project	9			
Wo		Comotor	Geographic Information Systems	4,5			
C			Analysis and Data Processing	4,5			
			Regional Development and Community Policies	4,5			
			Dissertation	21			
			Applied Ecology	4,5			
			Strategic Environmental Assessment	4,5			
			Performance Evaluation	4,5			
			Eco-hydraulics	4,5			
			Management of Urban Mobility	4,5			
					Solid Waste Management	4,5	
			Integrated Watershed Management	4,5			
Optional	9	One	Coastal Zone Management	4,5			
Optional	Ŭ	Semester	Regions and Networks	4,5			
		Univ	ersity of Aveiro: Master in Urban and Regional Planning				
			Urban Forms	6			
			Strategic Territorial Planning	6			
			Environmental Systems and Sustainability	6			
~			Planning Support Techniques	6			
nles			Mobility Planning	6			
pou			Environmental Development Strategies	6			
	108	One	Socio-Economic and Territorial Dynamics	6			
ulso		Semester	Urban Planning	6			
Compulsory modules			Planning Systems and Policies	6			
ŭ			Legislation and Urban Administration	6			
			Territorial, Regional Policies and Innovation	6			
			Project/Placement	12			
			Dissertation	30			
0	10	One	Option I	6			
Optional	12	Semester	Option II	6			

## Table 5. Selected Programmes in Planning at the Master Level 2011/2012

<sup>&</sup>lt;sup>15</sup> https://fenix.ist.utl.pt/cursos/met (accessed Aug 2012)

			University of Minho: Master in Urban Engineering <sup>16</sup>	
			Geographical Information Systems	7,5
			Investment Assessment	7,5
			Urban Planning	7,5
			Water Resources Management	7,5
			Specialization Area (students select either A, B, or C):	
			A - Sustainable Cities:	
			Environmental Urban Management	7,5
ş		One Semester	Innovation in City Management	7,5
dule			Research Methodologies	7,5
ой Ш			Sustainable Mobility	7,5
Compulsory modules	120		B- Environmental Hydraulics:	
sluc			Management of Solid Waste and Water Infrastructure	7,5
ш			Research Methodologies	7,5
Ö			Waster Waste Treatment	7,5
			Water Treatment	7,5
			C - Roads Infrastructures:	
			Design and Construction of Pavements in Urban Roads	7,5
			Management and Rehabilitation of Urban Roads	7,5
			Research Methodologies	7,5
			Trenches: Design, Security, Construction and Quality Control	7,5
			Research & Development Project – Dissertation	60

### **Doctoral Studies**

Given the strong research focus and theoretical orientation of higher education in Portugal is it not surprising that support for and interest in doctoral studies is well developed. A doctoral qualification is already a de facto requirement for a position in academia. Since the mid1990s, the majority of PhD students are fully funded. In some cases candidates are employed as teaching assistants. In recent years, industry funded PhDs have come on stream and a few enterprises are supporting employees wishing to upgrade their qualifications. The number of individuals engaged in doctoral studies in planning is difficult to determine though, as with the exception of the University of Aveiro (Urban and Regional Planning) and Lisbon Technical University (Spatial Engineering), there are no specific planning PhD programmes. In fact, many planning-related theses are conferred in Civil Engineering, Architecture or Geography, respectively. A conservative estimate is an output of 20 planning PhDs per annum.

### Conclusion, Evaluation and Outlook

The number of full programmes (undergraduate or graduate) in planning in Portugal is relatively limited and planning-related programmes are centred at institutions with a technical profile (architecture or civil engineering). University Lusófona de Humanidades e Tecnologias in Lisbon is the only institution offering planning degrees at all levels: Bachelor, Master and Doctoral. All, other HEIs offer only Master and doctoral level planning education or planning as a specialisation of another discipline.

Planning practice, in spite of the existence of three professional associations, is (still) dominated by professionals trained as civil engineers or architects and the planning profession is not fully recognised. There is no professional body empowered to accredit programmes in planning. At the

<sup>&</sup>lt;sup>16</sup> http://www.civil.uminho.pt/meu\_uk.htm (accessed October 2010)

Bachelor level there are no guidelines for planning programmes and the definition of the core curriculum in planning at Master level has an informal character and is not institutionally approved.

One may hope that this ambiguous situation is resolved in the not too distant future as many young, highly qualified planning academics (many with PhDs from countries other than Portugal) can be seen to engage actively in planning education discourses at European level, especially in AESOP while planning professionals are participating in international planning organisations and practitioner networks (i.e. ECTP-CEU, IFHP, ISOCARP).
# 4.2 Spain

Since the establishment of a planning system in the mid 1950 (Ryser and Franchini, 2008), the planning process in Spain is characterised by an emphasis on zoning, master and detailed plans for infrastructure development. There is no spatial planning profession per se and planning in Spain is predominantly led by architects who have specialised in urban design and larger scale planning (Rodriguez-Bachiller, 1988; Lamiquiz, 2004, p. 321). Deregulation policies in the 1990 and early 21<sup>st</sup> century together with a lack of clarity in administrative policies have led to widespread sprawl, development scandals and rampant real estate speculation, which have in turn reflected negatively on urban and spatial planning and brought the planning profession into disrepute. Whether the profession can capitalise on the renewed interest in planning based on its acknowledge role in creating sustainable cities and communities is unclear as higher education and education for planning remains strongly bound to past traditions.

## **Higher Education Structures**

Spain's university tradition is legendary: the University of Salamanca (established 1218) and University of Valladolid (established 1241) are among the oldest institutions in Europe. As of 2011/12 there were 78 institutions providing higher education in Spain of which 13 are church-operated, 15 private and the remaining 50 are public institutions. Regardless of their ownership status, universities are structured into schools, where technical studies are offered (i.e. architecture and engineering), and faculties, which are devoted to other sciences (geography, law, economics, sociology, medicine, etc).

The Bologna reforms proofed to be difficult to implement in Spain as the structure of higher education degrees differs significantly from other models in Europe. Spanish universities usually offer 4-5 year long-cycle programmes for academic and engineering degrees and shorter professional degrees of 3 years, for example, in Nursing or Social Work. These are not considered equivalent to a bachelor. It was not until 2006, when second cycle (Masters) and 2008, when first cycle (Bachelor) degrees were to be introduced (Parliament of the Kingdom of Spain, 2007a) with the implementation to be completed in 2010/11. Following resistance from academics and professionals in the fields of architecture and engineering the post-Bologna national framework in Spain was revised and now differs from frameworks adopted elsewhere in Europe by allowing longer first cycle degrees of 4-5 year duration in architecture and engineering. Second and third degree cycles are however in line with the requirements in other Bologna signatory countries (Table 7).

Table 7. General Degree Structures in Figher Education (Fost Dologila)				
Undergraduate level	Licentiates and engineers (both Bachelor), architects	8-10 semesters		
Postgraduate level	specialization modules master modules	1-2 semesters 2-4 semesters		
Doctorate level	compulsory modules PhD research	4-6 semesters -		

 Table 7. General Degree Structures in Higher Education (Post Bologna)

## **History of Planning Education**

Traditionally, in Spain, urban and regional planning education has been delivered exclusively through Schools of Architecture focusing on the design of urban environments and, to a lesser extent, on urban planning, land management and environment (Ninot Pie, 2005). Around 40% of all institutions in Spain (17 public, 14 private) offer some level of planning education as a minor or major component of

programmes in architecture. From the mid-1970s onward planning-related modules have been also introduced within the faculties of geography as well as civil engineering, law and environmental sciences. This broadened the perspective of planning as a field of study and profession. Nevertheless, schools of architecture still offer the highest number of credits for modules relating to planning.

The sector is very slow to embrace change. A case in point is, that despite of the University Reform Act of 1983 which specifically created the possibility of establishing degrees in the field of urban planning, traditional affiliations and naming conventions prevailed for nearly 25 years until the first autonomous Masters in Urban Design, Planning and Sustainability at the University of Madrid was established just recently.

#### **Planning Education Now**

Even today, Spain has no independent undergraduate programme in planning. The model of planning education remains that of planning as a specialism or extension of other disciplines or fields. So, aside from planning education as a specialisation in first cycle degrees, a range of institutions offer postgraduate (post-professional) diplomas, degrees, or certificates to up-skill architects, geographers or lawyers. For example, the Technical University of Madrid through its Urban and Regional Planning Department runs two such programmes: *Urban Planning* and *Urban Studies*. These programmes, lasting generally one year and exceptionally two, offer specialised training in urban legislation, construction legislation, real estate management, urban design, public administration, urban anthropology, etc and target recent graduates and professionals practicing planning. The newly created 2-year Master in Urban Design, Planning and Sustainability at the University of Madrid represents possibly a departure from this approach offering a more comprehensive and generalist education for planning, yet it is the only such programme at present.

#### **Guidelines and Accreditation**

The legislation for adapting study programmes to the Bologna framework (Parliament of the Kingdom of Spain, 2007a) initially foresaw curricula leading to a Bachelor of 180-240 ECTS and the curriculum leading to a Master degree requiring 60-120 ECTS in both compulsory and optional courses in a variety of teaching forms (seminars, tutorials, external professional practice). Additional activities may be required for those seeking to obtain a professional title, e.g., an internship. For a master degree students also need to prepare and publicly defend a thesis comprising of 6-30 ECTS. The proposed structure (3 + 2 years for undergraduate and master levels, respectively) was however deemed insufficient for studies in architecture and vehemently opposed. As a result, the education requirements to practice the profession of architecture (and by association planning) was increased to 300 ECTS (5 years) for the first cycle and 60 for the second cycle (1 year) distributed in different subject areas (Table 8) (Parliament of the Kingdom of Spain, 2007b). In respect to planning, specific sets of skills and learning outcomes for urban and spatial studies at schools of architecture were also defined (Parliament of the Kingdom of Spain, 2007b) for first cycle degrees (Figure 5). However, similar guidance for the master level does not exist.

Considering that the majority of planning education is provided within architecture undergraduate degrees and no further guidance exists for 2<sup>nd</sup> cycle degrees, it is instructive to review selected undergraduate architecture programmes with a planning specialisation to better understand the character of the provision (Table 8). Module titles provide little detail and focus generically on urban design and urban/physical planning. They are typically intended to be studied in the later years of the

first cycle with a progression from the local (neighbourhood) to regional scale. It is to be expected that knowledge in planning topics will be relatively basic as planning modules account for merely 10-15% of the entire degree (for example: max 36/300 ECTS in CEU San Pablo, 51/300 ECTS at Polytechnic University of Valencia and 42/300 at Granada).

Bachelor/1 <sup>st</sup> cycle	ECTS
Preparatory: Basic science and drawing	60
Technical: Building, structures and infrastructures	60
Design: Composition, projects and urban planning	100
Final degree project	6
Total	226 (300)*
Master/2 <sup>nd</sup> cycle	
Technical section: Building. Structure. Infrastructures	8
Design section: Composition. Projects. Urban planning	12
Master Thesis	30
Total	50 (60)*

Table 8. Compulsory Modules\* and ECTS for studies in Architecture in Spain

\*The remaining 74 ECTS at undergraduate and 10 ECTS at Master level can be allocated according to the preference of each institution/faculty.

# Figure 5: Key learning content in urban studies at schools of architecture in Spain (Translated by Franchini)

- Spatial representation systems applied to architecture and planning.
- Basic of topography, hypsometry, mapping and land modification techniques.
- Real estate management.
- Conception, practice and development of urban projects.
- Functional programmes for buildings and urban spaces.
- Intervention, conservation, restoration and rehabilitation of built heritage.
- Removal of architectural barriers.
- Documentation and protection of built and urban heritage.
- Drafting of civil works projects.
- Design and implementation of urban design and development projects, gardening and landscape.
- Planning ordinances Planning systems
- Environmental studies, landscape and environmental impacts correction.
- General theories on form, composition and architectural types.
- Studies on social needs, quality of life, liveability and basic housing programs.
- Ecology, sustainability and conservation principles of energy and environmental resources.
- Architectural, planning and landscape traditions in Western culture and its technical, climatic, economic, social and ideological underpinnings.
- Architects cultural patterns and social responsibilities.
- Urban sociology, theory, economics and history.
- Urban, regional and metropolitan planning methodological principles.
- Mechanisms for drawing up of urban planning at any scale and its management.
- Civil, administrative, planning, building and industry regulations related to professional performance.

Higher Polytec	Higher Polytechnic School, CEU San Pablo University, Madrid						
	Total ECTS	Duration	Course	ECTS	Year of studies		
ses			Introduction to urban planning I	3	2		
courses			Introduction to urban planning II	3	2		
<u> </u>			Urban design I	3	3		
ory	24	one semester	Urban design II	3	3		
nlse l	24	Une sernester	Urban planning I	3	4		
du			Urban planning II	3	4		
Compulsory			Urban and regional project I	3	5		
			Urban and regional project I	3	5		
Optional	12	ono comostor	Planning landscape	6	5		
Optional	12	Une sernester	Planning and contemporary city	6	5		

#### Table 8. Examples of Planning Modules at the Bachelor Level in Spain

Higher Technic	Higher Technical School of Architecture of Valencia, Polytechnic University of Valencia					
			Urban planning I	9	2	
sony			Urban planning II	9	3	
puls	33	one semester	Urban planning III	9	4	
Compulsory courses	E S		Legal architecture, urban legislation and	6	5	
			valuation			
			Planning management	4,5	5	
Optional 18	10	10	Informatics applied to planning	4,5	5	
	IO one semester	une semester	Environment and regional planning	4,5	5	
			Landscape and urban projects	4,5	5	

Higher Technical School of Architecture of Granada, University of Granada						
5			Urban planning I	6	3	
llso	Jurses 30	000	Urban planning II	6	3	
Compulsor y courses		one	Urban planning III	6	4	
		Semester	Urban planning III Urban planning IV	6	4	
			Urban planning V	6	5	
Optional	12	one	Urban history	6	3, 4 or 5	
Optional	12	semester	Planning and landscape	6	3, 4 or 5	

## **Doctoral Studies**

The list of scientific disciplines in Spain does not specify the field of planning *per se*. Universities confer a doctorate with the reference to the institution and faculty (which can be for example a department of urban and regional planning or architecture). Doctoral studies are highly individualised and students develop a plan for research training and activities together with their supervisors. Thus it is impossible to gauge the number of doctoral students engaged in planning related research topics.

## Conclusion, Evaluation and Outlook

Similarly to the situation in other European countries, planning has not gained full legal or social recognition as an independent field of study, which underlines the concerns raised in the introduction in regard to the profile and status of planning as an independent field of work and study. Planning education in Spain does not exist as autonomous undergraduate programme. Planning-related modules at bachelor level are centred in schools of architecture and are a part of programmes in architecture. Yet, planning-related modules are also offered within programmes in geography, environmental studies, social sciences or law. A few universities offer postgraduate specialised and

master programmes. The only institution in Spain delivering a comprehensive master programme in planning is the Technical University of Madrid, Department of Urban and Regional Planning.

There is no curriculum in planning as autonomous discipline, and unlike in Portugal not even an attempt to develop subject-specific guidelines for planning education informally. There is no professional body empowered to accredit programmes in planning, and for those programmes where planning is offered as a specialisation within architecture, curricula conform to the standards defined for Architects.

Finally, Bologna agreement implementation in Spain resulted in substantially different structures than in other European countries. In many fields the reforms have been rejected and the long-cycle programmes (associated with requirements for undergraduate level) remain in place. The second cycle has also a different profile than in other countries with mostly one year and only occasionally two year degrees.

Sadly, at present, Spanish universities are not very active in European or international networks of planning educators or practitioners (AESOP, EURA, ECTP-CEU, IFHP, ISOCARP). There are only 5 institutional AESOP members and involvement hinges on a few individuals.

# 4.3 Finland

Planning in Finland is an established professional practice and receives much political and public attention. The city of Helsinki, for instance, has been carefully designed and planned since its establishment as capital in 1812. The modern Finnish Planning System is composed of a set of interlocking plans, legal obligations and procedures, as well as strategic documents guiding development with an orientation to the future. Following existing typologies, the Finnish Planning system has been characterized as comprehensive-integrated (European Commission, 1997; University of Valencia, et al., 2006) or simply as Nordic (Newman and Thornley, 1996), alluding to the high similarity between Nordic states and especially the Nordic welfare systems. The most recent land-use and building law was ratified in 1999 fully replacing earlier legislation from 1959. One reason for the update was a perceived need to embed the communicative planning paradigm in legislation and strengthen public participation in planning processes.

#### **Higher Education Structures**

Finland has sixteen universities, which operate on principles of academic freedom and autonomy. The majority of universities are state-run with the government providing around 70% of their budgets. However, as of 2009, Aalto University and the Technical University of Tampere, have been converted into foundations mimicking economically independent funding models of universities in the USA and elsewhere. The introduction of this new model will likely lead to further changes in Finnish higher education, where so far universities, polytechnics/universities of applied science, colleges, and a host of other higher education institutions for police and military exist side by side. All of them are supervised by the Ministry of Education but operated by different bodies. At present, university education (1<sup>st</sup> and 2<sup>nd</sup> cycle) is still free of charge with the exception of a small annual membership fee that students at Bachelor and Master level are obliged to pay to the student union and for which they receive in return discounted meals, health care services and other social benefits. The emergence of the new foundation universities has triggered a public debate around the introduction of tuition fees – yet a decision on levels and models is still outstanding.

The Bologna declaration and proposals have been widely implemented although there are some differences for the two major routes through the system (Figure 6). For the classical (more theoretically oriented) university stream most of the programs have nowadays a Bachelor (6 semesters) and Master (4 semester) structure. Degree programs at Polytechnics are average 8 semesters for a Bachelor in Science, and are followed by at least three years of relevant work experience. This will then again be followed by 4 semesters for a Masters. Regardless of these guide times, in planning and specifically in architecture, average times to degree completion vary considerably and tend to exceed minimum standards as students spend extended periods working in architectural offices to gain practical experience. The formal qualification frequently comes at a later stage.

#### Figure 6. Higher Education in Finland<sup>17</sup>



ISCED classification: 3 Upper secondary education, 4 post-secondary non-tertiary education, 5 first stage of tertiary education.

## **History of Planning Education**

Considering the high standing of planning in Finish society, it is rather surprising that planning education does not exist in the form of independent programmes in Finland but is historically offered within various (planning-related) disciplines as a major or partial subject. The main contribution comes from architecture leading by and large to an 'urban design' approach toward planning. Historically, Finnish architect-planners such as Aalto (1898-1976) and Saarinen (1873-1950) have designed and shaped not only individual buildings but also cities and regions. This tradition is continuing through today. Nearly two thirds of all practising urban planners in Finland have an architecture background (Kangosoja *et al.*, 2010). The second largest group of planning. However, surveying has changed over the years, focusing nowadays more on land and property markets. The remaining planning practitioners have other backgrounds including geography, engineering or construction (Kangosoja *et al.*, 2010). This division is also visible in the provision of education for planning which is offered at both universities and polytechnics (also referred to as universities of applied science).

## **Planning Education Now**

As indicated above, the most prominent planning education providers are the departments of Architecture at Aalto University (urban planning and design), Oulu University (planning and urban

<sup>&</sup>lt;sup>17</sup> <u>http://www.minedu.fi/export/sites/default/OPM/Koulutus/koulutusjaerjestelmae/liitteet/finnish\_education.pdf</u>, 5.12.2011

design), and Tampere University (architecture), offering both undergraduate and master programmes with a strong foundation in planning (Table 9). Due to the structure of the degrees it is not possible to provide numbers for students taking planning majors. Overall, Alto University Foundation had the largest student cohort with around 550 architecture, 120 landscape architecture and approximately 70 postgraduate research students (Alto University, 2011); Oulu and Tampere have each about 300 degree students (2011).

In addition to the above provision within architecture, planning is also taught as part of surveying or engineering degrees. For example, at Aalto University's School of Engineering further planning related programmes are provided through the Department of Surveying (Geomatics, real estate economics) and the Department of Civil and Environmental Engineering (Transportation and Highway Engineering). The planning major of transportation and highway engineering aims to educate '*skillful Masters of Science in Technology for domestic and international planning, research and expert tasks in consulting firms and building companies of the private sector as well in public and municipal authorities' <sup>18</sup> Similar provision can be found at other universities, for example, the Department of Civil Engineering at Tampere University of Technology offers municipal technology and transport planning. At the University of Helsinki, Department of Geosciences and Geography programmes in Regional Studies with specialisations in geography planning, tourism planning, urban geography and development geography are offered.* 

One recent noteworthy addition to the master suite at Aalto University is the programme 'Managing Spatial Change' (from Autumn 2011) with an intake of circa 20 students. The objective of the degree is to educate skilled managers of spatial change: with a comprehensive understanding of the complexity of contemporary spatial challenges; a capacity to integrate spatial planning techniques from different disciplines; and a capacity to implement policies that represent the interests and realities of all stakeholders. Graduates will be able to understand the general cultural meaningfulness of the environment and to promote strategic and sustainable development. A vision of spatial development based on efficient and sustainable use of resources, good governance, inclusiveness and effective investing will be fostered throughout the studies. As knowledge gained in higher education can guite guickly become outdated and thereby losing its immediate value for working life, the curriculum deliberately employs a problem based learning approach. This approach prepares students for independent knowledge acquisition and application, problem solving, cooperation, based on multidimensional professional skills, and the capacity to continue learning. The programme will consist of an introductory module (20 ECTS), a shared project (20 ECTS) and an advanced module (20 ECTS) in either land economy or urban engineering. In addition students take free elective studies (20 ECTS), methodological studies (10 ECTS) and do a Master's thesis (30 ECTS).

Institution	Bachelor	Masters	AESOP
Aalto University*, School of Engineering, Department of Architecture-, Urban planning and design	BSc Architecture min. 180 ECTS	MSc Architecture or MSc Landscape Architecture min 120 ECTS	yes
Aalto University, School of Engineering, Department of Real Estate, Planning and Geoinformatics and Department of Civil and		MSc Managing Spatial Change min120 ECTS	yes

<sup>&</sup>lt;sup>18</sup> (<u>https://into.aalto.fi/display/enyyt/Degree+structure+and+major+subjects</u>, v 05.12.2011).

Environmental Engineering			
University of Oulu, Faculty of Technology,			yes
Department of Architecture, Laboratory of planning			
and urban design	min. 180 ECTS	min 120 ECTS	
Tampere University of Technology, Faculty of Built			yes
Environment, School of Architecture	min. 180 ECTS	min 120 ECTS	-

\*Aalto University has a long history dating back to 1872 and beyond when it was a Polytechnic providing architecture education. In 1908 the institution was given a wider remit as Helsinki University of Technology (TKK) which then was transformed in 2010 into Aalto University (one of two Finnish foundation universities). Programmes at Oulu and Tampere were established in 1959 and 1969 respectively.

A number of Polytechnics and Universities of Applied Science also offer planning related education. Key providers are listed in Table 10. After graduating as an engineer (4-year degree, see Figure 6) and a few years of working experience, it is possible to continue in higher education with postgraduate studies. The biggest difference compared to universities is the amount of compulsory practical training which can be between 30 and 60 credits. Graduates of those programmes also qualify as planners and can work in the professional field on specific tasks (see Professional recognition, below).

Institution	Programme	Orientations
Metropolia University of Applied Science - School of Civil Engineering and Building Services (Helsinki)	Land surveying technology programme, Construction engineer programme	"The professional field of land surveying is extensive and multidisciplinary. It includes surveying and mapping techniques, Geoinformatics, cadastral surveying and <u>land</u> <u>use planning</u> . The different sectors often interact and the aim is to provide the land surveying engineers' general competence in this field. " One of the professional orientations of the Construction engineer programme is "infraconstruction". The focus includes building and planning of streets, bridges, houses etc.
Rovaniemi University of Applied Science - Discipline for Technology and Transportation (Rovaniemi)	Land surveying technology programme and Construction engineering programme	See above, construction engineers plan and build housing, roads, streets and water and waste management services.
NOVIA, University of Applied Science (Vaasa region)	Land surveying technology programme, Construction engineering programme	As above
HAMK, University of Applied science, (Hämeen ammattikorkeakoulu)	Building and Construction engineering programme, Traffic and Transport management	HAMK is the only Finnish university of applied sciences which offers traffic and transport management as a major, in contrast to others where transport planning under is a focus in, for example, construction engineering studies
Lahti University of Applied science - Faculty of Technology (Lahti)	Environmental planning	Central studies: inventory of the landscape, natural circumstances and built environment, ecology, landscape planning, community planning, developing the built environment ( <u>http://www.lpt.fi/tl/miljoosuunnittelu/</u> ), including methods relating to observing, making an inventory of the environment and participatory planning as well as assessment of the environmental effects. (http://www.lpt.fi/tl/miljoosuunnittelu/)

 Table 10. Examples of planning related programmes at Universities of Applied Science/Polytechnics

## **Guidelines and Accreditation**

In lieu of any prescribed guidelines for planning education, Alto University's approach is used to illustrate a typical architecture or urban planning and design curriculum structure<sup>19</sup>. The programs do not provide a fixed diet of courses which are obligatory in a narrow sense, but follow the departmental

<sup>&</sup>lt;sup>19</sup> Due to the creation of a new School that integrates Art, Architecture and Design, a new programme will be shaped for the future with – at the time of finally editing the article – not yet known structures.

ethos for the education of architects and urban planners which declares that *"architecture is an art, requiring learning of professional practice, personal artistic development and technical knowledge of building"* (Alto University, n.d.). Programmes cover several thematic fields: History and Theory of Architecture, Building Design, Urban Planning and Design, Wood in Architecture and Construction, History of Finnish Architecture, European Metropolitan Planning, Local Development and Globalization, Sustainable Urban Design, Cities in Crisis, Building Structures, Planning Theory, Methodology and Scientific Communication, Basics and Theory of Architecture, Introduction to Architectural Research, Architectural IT, Sustainable Building Design. Many courses are taught using a studio format, like housing design studio, wood construction or urban renewal. Additional and more specific inputs come from neighbouring disciplines in surveying and civil engineering. The landscape architecture program adds elements related to landscape design, planning and management. A two cycle degree structure was introduced in 2005. Since then, students first complete a Bachelor of Science in Architecture and ultimately progress to a Doctorate, i.e. Doctor of Science (Architecture) [D.Sc. (Archit.)], or a Doctor of Philosophy (Ph.D.).

The curriculum for the Bachelor (3 years, full-time) consist of

1) scientific, mathematical and other basic studies needed for the degree program and the necessary module of artistic studies (80 ECTS);

2) general studies module for the Bachelor's degree (20 ECTS);

3) three modules, in architecture (3 x 20 ECTS); within this element, for architecture students 20 ECTS are compulsory in urban and regional planning,

4) elective studies (at least 10 ECTS), and

5) Bachelor's seminar and thesis (10 ECTS).

The curriculum for the Master in Architecture or Landscape Architecture (2 years, full-time) consist of

1) studies of scientific method (10 ECTS);

2) three modules, of which at least one shall be an advanced module in the student's major subject – i.e. architecture or landscape architecture (3 x 20 ECTS);

3) elective studies (at least 20 ECTS), and

4) Master's thesis (30 ECTS).

Master students of architecture with a major in urban and regional planning have to take 2 x 20 ECTS in advanced and extended modules in planning. Topics include basics in urban and regional planning, regeneration, professional perspectives, planning theory, globalization and local development, and sustainable urban design.

## **Professional Recognition**

There is no requirement to register or become chartered as a planner in Finland, however a voluntary register exists since 2002, when FISE (*Rakennus-, LVI- ja kiinteistöalan henkilöpätevyydet FISE Oy*), a network of eighteen stakeholder associations, representing approximately forty different professions, was established as a voluntary certification body for the recognition of qualifications of built environment professionals (other than architects which are registered by the Finnish architectural association) including planning. Recognition is granted for seven years and can also be withdrawn. In particular, an individual can be listed on the planners' register as qualified planner if s/he:

1) has completed a degree as architect, landscape architect or Master of Science in technology from surveying technology (also from abroad) where the program contains modules in community planning (including legislation as well as information technology skills) and, depending of the particular degree, either real-estate technology, landscape planning or construction planning or studies and/ or professional skills of community planning, of which the board approves accumulating a minimum of

- a) 105 ECTS, of which at least 60 ECTS should be about community planning and at least 2 years community planning working experience after graduating, or
- b) 75 ECTS, of which at least 53 ECTS are community planning, and at least 4 years community planning working experience after graduating, or
- c) 45 ECTS, of which at least 30 should be community planning and at least 6 years community planning working experience after graduating, or
- d) 8 years of community planning working experience after graduating; or

 has completed a degree of Construction architect or engineer degree in surveying technology, or engineer degree which is emphasized on community planning in domestic technical educational institute or university of applied science, or a degree which can be comparable to those and which is completed in domestic or foreign educational institute and has carried out complementary studies in community planning (60 ECTS) (content of those studies must be approved by the professional board) and who has worked in community planning tasks at least 4 years after graduating; or 3) has completed a degree of construction architect or engineer degree on surveying technology, or engineer degree which is emphasized on community planning in domestic Technical educational institute or university of applied science, or a degree which can be comparable to those and which is completed in domestic or foreign educational institute and who has worked with community planning 8 years after graduating. Still In order to get oneself to the Finnish share of the European community planners register the degree has to be supplemented that it fulfils the previous section 2; or 4) has completed complementary studies in community planning (60 ECTS) brought up in section 2, and can prove to the professional board that s/he has the same professional level which has been defined in section 1, 2 and 3, and has been working in community planning at least 12 years. Note: This required experience does not yet exist because the land use and building act came only into force in 1999 (FISE, 2011; Translation by J. Ståhl)

## **Doctoral Studies**

Doctoral studies in planning are administered by the RYM-TK Centre, the nation-wide operating doctoral programme for built environment disciplines. The Centre is funded through the Academy of Finland and the Ministry of Education. RYM-TK supports the development of a new generation of business-aware researchers, who are capable of dealing with and resolving problems of strategic value to the built environment. It does so by solely concentrating on doctoral level research. Seven universities, Aalto University (coordinator), Hanken School of Economics, Helsinki University, University of Oulu, Tampere University of Technology, Turku School of Economics and Business Administration (University of Turku), University of Eastern Finland, and two research institutes (VTT, Finnish Geodetic Institution) from all over Finland bring their expertise into RYM-TK with about 70 affiliated professors. At the time of writing around 100 full and part-time PhD students are eligible to take part in RYM-TK activities; a fraction of those receives a grant or other support. The aim of the doctoral programme is to effectively support built environment research through scholarships, travel and research exchange grants to strengthen international networking, as well as research seminars and courses to provide guidance and support for multidisciplinary research and methods training. The centre is managed by a head of programme and a coordinator with the administration organised

through Helsinki University of Technology, while the programme is overseen by an Executive Board consisting of professors of the participating universities.

## Post-graduate and Continued professional education

Since 1968, the Centre of Urban and Regional Planning at Alto University offers multidisciplinary continuing and post-graduate education in planning, which comes closest to existing planning education in other parts of Europe. The main target group is practicing planners from Finland who want to up-grade and critically reflect on their practical planning knowledge. Over the past 40 years more than 1600 planners have benefited from the Centres' offerings.

#### Conclusion, Evaluation and Outlook

There seems to be a peculiar disconnect between the educational provision for planning which has a strong urban design focus and rewards individual creativity on one hand and planning practice in Finland which clearly embraces an interdisciplinary and communicative conception of planning on the other. Indeed, planning is well recognized and professional competencies for planners are clearly defined as part of the 1999 Land use and building act (Maankäyttö- ja rakennuslaki). In section 3 of the decree's (MRA 3§) it is stated that the "establisher of a plan needs to have a higher education which is suitable for the planning task, and an adequate experience and competence which correlates with the particular task at hand" (translation by J. Ståhl). Education and work experience of a planner should provide knowledge in areas such as community structures, construction culture, urban planning, environment, landscape, transportation, finance and social guestions as well as in cooperation and decision making processes. Perhaps more crucial than the lack of independent planning education degrees may be the fact that there has been little change in planning education (Virtanen, 2004, p. 400) over the past decades. Kangosoja et al. (2010) studying the competencies identified by practitioners as most important, corroborate statements in background documents (Jääskeläinen and Syrjänen, 2003). Both Virtanen (2004) and Kangasoja et al. (2010) propose that the planning majors need to include more learning and skills for project management, and communication as well as IT and law rather than CAD and design. Negotiation and interdisciplinary team working are nowadays essential for planning and particularly large scale planning tasks. So far only Alto University has started to respond to these challenges with the new Master in Managing Spatial Change.

# 4.4 Poland

Following nearly half a century of totalitarian communist power, Central European countries, such as Poland, started to develop more market oriented planning systems in the 1990s. One of the first changes introduced by the new democratic governments was the restitution of land, the creation of land markets and a decentralization of planning competencies in line with pre WWII practices when planning systems in this part of Europe were strongly influenced by Germanic, Austrian-Hungarian legislation requiring detailed land use plan preparation and planning skills at the local level (Ryser and Franchini, 2008).

One consequence of 45 years of centralist totalitarian planning experience was that "planning" throughout Central Europe developed a very negative reputation associated with 'central (socioeconomic) planning' as well as government restrictions and interference and is commonly resented by land owners who feel they should be free to exercise their property rights and develop land without external control. This did not bode well for the re-establishment of a planning profession and development of planning education programmes.

## **Higher Education Structures**

Higher education institutions in Poland and those of many other former communist countries are typically highly specialised and focused on programmes in a particular set of associated fields. This peculiar institutional landscape of universities of the humanities, universities of economics universities for natural sciences or technical and medical universities and so forth was established under communist rule and prevails until today. Other aspects of higher education have changed swiftly post 1989. For example, the autonomy of Polish universities was re-established for the larger institutions by the 1990 Higher Education Act (Butler and Kritsonis, 2006; Parliament of the Republic of Poland, 1990) and the state also relinquished its monopoly on HE leading to the establishment of many new private institutions of higher education (Frank and Mironowicz, 2009). In fact, higher education is one of the most dynamic sectors in Poland. While in 1992/3, Poland had 124 HEIs of which 18 were non-public, almost twenty years later (2010/11) there were 470, including 338 non-public institutions providing tertiary education for 575 363 students (Central Statistical Office of Poland, 2007a, 2007b, 2011; Polish Ministry of Education, 2012). Still, the bulk of students are educated at public institutions, which also dominate research.

When Poland became a Bologna signatory country in 1999, the required three cycle degree programmes were introduced efficiently. As part of the Higher Education Act (Parliament of the Republic of Poland, 2005) all traditional 4 and 5 year programmes were transformed into Bachelor and Master degrees with the exception of a few subjects such a medicine and pharmacy. The modern post-Bologna structure follows that outlined in Figure 2 with 6-7 semesters (180 ECTS for non-technical degrees and 210 ECTS for technical degrees carrying the professional title of 'Engineer') for undergraduate studies, and 3-4 semesters (90 or 120 ECTS) for Masters.

## History of Planning Education

Autonomous city, regional or spatial planning programmes are fairly new in Poland. In fact, throughout the communist era, planning merely was a professional specialisation of either, architecture and engineering with a focus on physical and technical aspects of plan preparation. The links with the urbanism tradition were quite evident. Although planning was not taught and fully established as an

independent field of study until the early 1990s, planning-related modules, and especially, planning research started in Poland at the same time as in other European countries. For example, a Department of Town Building was established as early as 1913 at Lvov Technical University<sup>20</sup> (Pawlowski, 1973).

After WWII, with no planning education programmes in existence, planning became a professional specialisation for graduates of architecture or engineering. Despite the lack of planning education, planning theory and planning-related research nevertheless prospered. In 1958, the Polish Academy of Science established the Committee for Spatial Economy and Regional Planning (CSERP)<sup>21</sup> with the objective to inspire and define new studies in spatial economy and planning in Poland.

The post 1989 emergence of a new market-driven planning system in Poland had not only wideranging implications for urban and economic development but resulted in dramatic changes in planning practices and philosophies for which planners were ill prepared, lacking familiarity with the planning approaches and instruments suitable for such a system (Hirt and Stanilov, 2008). Fortunately, Polish planning academics recognised that the collapse of communism created both a need and an opportunity to establish modern planning education programmes. As planning in the 1990s had a negative connotation conjuring memories of a "centrally planned, state managed (=communist) economy", diplomatically a neutral title was adopted for these new programmes: *Gospodarka Przestrzenna* – which translates to something like "Spatial Economics", "Spatial Economy" or "Land Economy". The inspiration for this name could be found French '*aménagement territoire*' which embraces all aspects of planning.

Based on the initiative of members from the CSERP, the first guidelines for planning education and the first two 5-year (MA or Dipl-Ing.) programmes in spatial planning and land economy were established in 1991. Significantly, the first two universities, which opened planning education programmes, had different scientific backgrounds and focus (Adam Mickiewicz University in Poznań at the Faculty of Geography and Wroclaw University of Technology at the Faculty of Architecture) leading to different but complementary curricula profiles. From 2002 onwards, all new planning degrees adopted the new Bologna structure, whereas existing programmes were gradually restructured to fit the new framework.

#### **Planning Education Now**

As of 2010/11 nearly 50 planning programmes have been established across 43 Polish universities and higher education institutions. Of those, thirteen institutions offer planning education at Master level. With the exception for the Higher School of Finance and Management in Bialystok they all are public universities (Table 11). Programmes in planning at undergraduate level are currently offered at 3 universities of technology (Wroclaw, Warsaw, Gdansk, Bialystok), 6 universities (Gdansk, Poznan, Lodz, Opole, Olsztyn, Warsaw), 4 universities of economics (Warsaw, Katowice, Cracow, Poznan), 5 universities of life sciences/agricultural universities (Warsaw, Lublin, Poznan Wroclaw, Cracow), 1 University of applied sciences (*Fachschule*, Walbrzych) and 19 private institutions all over Poland (see Online resource). The Centre for European, Regional and Local Studies at the University of Warsaw offers exclusively Masters level programmes. All programmes are regularly evaluated and accredited by the State Accreditation Committee and programmes deemed of unacceptable quality will be closed

<sup>&</sup>lt;sup>20</sup> Although in 1913 Poland was not an independent state and Lvov was a part of the Habsburg Monarchy, academic staff of Lvov Technical University – like the majority of Lvov citizens – consisted of many scientists of Polish nationality.

<sup>&</sup>lt;sup>21</sup> Polish name for the institution is Komitet Przestrzennego Zagospodarowania Kraju, more at: www.kpzk.pan.pl

(Frank, et al., 2012). In 2012, the largest 17 planning schools in Poland signed a formal agreement to form a national Polish association of planning schools with the aim of cooperating in promoting planning and excellence in planning education.

Institution	Year established	1st cycle (Bachelor)	2nd cycle (Master)	AESOP
Wrocław University of Technology Faculty of Architecture	1991	3.5	1,5	Yes
Adam Mickiewicz University Poznań				
Faculty of Geographical and Geological Science	1991	3	2	Yes
Collegium Polonicum in Słubice	2000	3	2	100
Cracow University of Economics				
Faculty of Finance	1996	3	2	Yes
University of Warsaw	1997		2	
Centre for European Regional and Local Studies		-	2	
Higher School of Finance and Management in Białystok,	4000	3	0	
Faculty of Spatial Economics	1998	3.5	2	
University of Łódź				
Faculty of Economics and Sociology	1998	3	2	Vaa
Faculty of Geography and Faculty of Management	1998	3	2	Yes
(Interdepartrmental Programme)				
University of Warmia and Mazury in Olsztyn	1998	3.5	1.5	
Faculty of Geodesy and Land Management	1990	5.5	1.5	
Warsaw University of Life Sciences (SGGW)	1998	3.5	1.5	
Poznań University of Economics	2003		2	
Faculty of Management	2003	3	Z	
University of Warsaw	2003	3	2	
Faculty of Geography and Regional Studies	2003	3	Z	
Warsaw School of Economics (SGH)	2003	3	2	
Warsaw University of Technology				
Faculty of Geodesy and Cartography in cooperation with	2005	3.5	1.5	Yes
Faculty of Architecture				
Karol Adamiecki University of Economics in Katowice Faculty of Economics	2006	3	2	

Table 11. Planning Schools in Poland offering Master degrees in planning (2012)<sup>22</sup>

## **Guidelines and Accreditation**

Higher education in Poland used to be highly regulated, with state level guidance and standards for each of the 118 state recognised fields of study. The latest guidelines for planning education were completed and ratified by the Ministry of Science and Higher Education in July 2007. The standards defined the name of the field, degree programmes and detailed requirements such as the number of semesters and hours of study, a graduate's profile in terms of skills and competencies, required content and learning outcomes, and minimum number of hours and ECTS for specified modules. The guidance distinguished between Bachelor and Master programmes and a comparison of learning

<sup>&</sup>lt;sup>22</sup> In 2012/2013 University of Life Sciences in Wroclaw opened the first programme in planning at Master level (1,5 years) along with their undergraduate programme

outcomes (Figures 7, 8) shows an anticipated progression to higher level skills and greater depth of knowledge from Bachelor to Master level (Mironowicz, 2006; Markowski and Mironowicz, 2008).

In 2011, a radically new version of the Act on Higher Education (Parliament of the Republic of Poland, 2010, 2011) was issued creating a different framework for all fields of study, revoking all existing guidelines. Under the new framework the programme descriptions have to identify learning outcomes classed as knowledge, skills or social competencies. These learning outcomes will be the basis for future guality assessment. Moreover, any university entity (faculty, department) that had the right to confer habilitations<sup>23</sup> is now empowered to establish programmes and curricula independent of ministerial guidance. Higher education entities, without the right to confer habilitations are also allowed to run new programmes, but these have to comply with 1) the generic learning outcomes for the applicable field of study issued by the Ministry<sup>24,</sup> and 2) get the approval of the Ministry and State Accreditation Committee. In both cases there is a requirement for a minimum number of academic (full time) staff specialised in a particular field of study and associated with the programme (as their main teaching activity). Radical changes in planning education due to these new policies are unlikely. The right to confer habilitations is linked to research status and sufficient academics holding degrees in a defined area of study. At present, only 3 planning education providers (Universities of Technology in Cracow, Wrocław and Warsaw) do gualify to take advantage of the rule. The majority of planning schools will merely adjust existing programmes by translating requirements into learning outcomes and it is thus useful to explore these in more detail.

#### **Bachelor in Planning**

Bachelor/undergraduate degree requirements vary depending on the type of conferring institution. At non-technical universities a minimum of 6 semesters (3 years) of study and 2200 hours (180 ECTS) are required, leading to a professional title of "licentiate" (*licencjat*). At technical universities, a bachelor in planning requires a minimum of 7 semesters (3.5 years) and 2500 hours (210 ECTS) leading to the professional title of "engineer" (*inżynier*). According to a university's profile, institutions may have 'additional' requirements like for example modules in mathematics and physics for universities of technology, or management for universities of economics (Mironowicz, 2010).

#### Figure 7: Key learning outcomes and competencies for the Bachelor in planning (2007)

- acquisition of essential skills from a variety disciplines including economics, sociology, law, engineering as well as environmental and cultural studies;
- acquisition of fundamental knowledge of spatial structure of socio-economic development;
- competencies in spatial analyses;
- capability to develop human's spatial environment according to their needs and technical demands with the respect to sustainable development;
- ability to cooperate in the preparation of planning documents such as local plans, development plans, local strategies, infrastructure development plans, environmental protection plans, regional plans
- capability of interacting with other built environment specialists
- ability to cooperate in urban and regional management
- competencies in real estate management; and
- ability to implement urban regeneration strategies and plans.

<sup>&</sup>lt;sup>23</sup> the degree of habilitated doctor exists also in Germany, France and Austria and generally is bestowed on individuals with significant scientific achievement after being post PhD

<sup>&</sup>lt;sup>24</sup> If no state guidelines exist for a field of study, the institution's Senate has to approve learning outcomes

The guidelines in planning, which are legally out of date, but still in practical use, define two groups of compulsory modules (Table 12). The first group (fundamental sciences) comprises of general subjects (mathematics, statistics, economics, sociology, physics) providing a wide intellectual background for graduates as well as modules that develop a theoretical base for specialised modules (economic geography, technical and planning drawing, urban history, introduction to law). Planning drawing/graphics and physics modules were required only in technical universities. The second group (specialized modules) provided essential planning knowledge and skills. The latter constitute a kind of "core curriculum". Students also are required to complete a minimum of four weeks practical training when studying at a technical university and three weeks when studying at a non-technical university. From 2011, 30% of all ECTS are to be gained from optional modules.

			BA Level					
Courses		Non-te	chnical	Technical				
		Hrs	ECTS	Hrs	ECTS			
Group: Fundamental Sciences:	Total:	240	26	360	34			
Mathematics		30		60				
Statistics		30		30				
Economics		30		30				
Economic Geography		30		30				
Technical and Planning Drawing		45		45				
Sociology		30		30				
History of Urban Development		30		30				
Introduction to Law		15		15				
Planning Drawing/Graphics*		-		45				
Physics*		-		45				
Group: Specialized modules:	Total:	540	57	510	49			
Introduction to Spatial Economics								
Socio-Cultural Aspects of Planning								
Environmental Aspects of Planning								
Legal Aspects of Planning and Environmental Protection								
Urban and Regional Economics								
Territorial Self-Government								
Urban Design								
Spatial Planning								
Transportation and Infrastructure Planning								
Geographic Information System and Land Information Sy	stem							
Local Development Policies								
Real Estate Economics								
Geodesy and Cartography*								
Civil Engineering*								
Design*								
Urban Regeneration*								
* required courses only for LIFIs with technical profile								

Table 12. Compulsory topics for Bachelor in Poland (2007 guidelines)

\* required courses only for HEIs with technical profile

#### Master in Planning

HEIs wishing to offer a master degree must employ no less than 6 full professors and 6 assistant/associate professors (holding a doctoral degree), who are research active and form the core of the academic teaching staff. This requirement limits the institutions that can legally offer such a

degree in planning and explains the focus of private institutions on 1<sup>st</sup> cycle provision. For secondcycle programmes a minimum of 4 semesters and 1000 hours (120 ECTS) for students with a Bachelor degree from a non-technical university, and a minimum of 3 semesters (1.5 years) and 900 hours (90 ECTS) for students with a professional title "engineer" is required. Masters in planning are open to students with a non-planning background as long as they have completed 60% of all compulsory modules of an 1<sup>st</sup> cycle planning degree. This is relatively easy to achieve for students in environmental studies, geography or architecture. After the 2011 reform, universities can determine their own institutional criteria, yet so far most institutions continue to use the tried and tested formula.

Basic/general modules (Table 13) provide education in systems thinking and complexity (systems theory, environmental science) as well as prepare students for leadership (management). Specialised modules provided planning specific knowledge preparing students for practice with topics in planning policy (town planning, regional policy, EU spatial policy and marketing places), planning law and technical plan preparation. Classes covering models in spatial policy and spatial economics seek to equip students with methodological tools for spatial analysis and scenario development (Mironowicz, 2007). A master thesis (can be also a professional project, plan or strategy) exploring a planning research topic must be produced as a final part of any second-cycle programme. The thesis has to be presented in both written and oral form to a committee of academics for examination.

#### Figure 8: Key learning outcomes and competencies for a Master in Planning (2007 guidelines)

- acquisition of profound theoretical knowledge which allow to conceptualize sustainable development and planning cities, regions and national spatial structure;
- scientific attitude to planning;
- acquisition of new methodological tools and techniques in planning, including specialized models;
- in-depth acquisition of social and cultural aspects of planning;
- capability to analyse complex planning problems;
- ability to create urban and regional spatial development strategies;
- capability to create urban, regional policy and specialized policies (transportation, environmental, urban regeneration);
- high competencies in local, urban, regional planning;
- capability to create international spatial policy;
- ability to co-ordinate multi-disciplinary teams and team leadership;
- acquisition of legal procedures in planning;
- ability to communicate concept and ideas to a larger public;
- skills in urban management; and
- advanced technical competencies in data analysis and GIS.

Modules	MAI	MA Level		
Wodules	Hrs	ECTS		
Group: Basic modules:	75	8		
Systems Theory	15			
Environmental Science	30			
Management	30			
Group: Specialised modules:	210	22		
EU Spatial Policy				
Marketing Places				

MA Level		
Hrs	ECTS	

## **Doctoral Studies**

In Poland, individuals engaged in doctoral studies are not considered students in the classical sense, but researchers or teaching assistants under supervision of senior academics. With no designated research discipline in planning, candidates work in a variety of fields of study (human geography, economics, etc.). The number of individuals studying for a doctorate in planning is unknown, but it is estimated that roughly 20 PhDs graduate annually. For most teaching positions a PhD is a requirement.

## **Continued Professional Development**

A requirement for continued professional development (defined by the Chamber) exists for registered practicing planners, which can be satisfied by participating in conferences, seminars and professional workshops and training. In addition, several planning schools (e.g., Wrocław University of Technology or Gdansk University of Technology) offer postgraduate studies (for professionals holding already a master degree) leading to a certificate or diploma in spatial planning or urban management and urban regeneration, respectively as a means to address the considerable demand to up-skill the workforce.

## Conclusions, Evaluation and Outlook

In contrast to other Central European countries, Polish universities offer a considerable number of planning programmes not only in design and engineering oriented institutions but also in universities specialising in economics or environmental sciences. As a result, Poland has a broad spread of planning programme foci, which is helpful in addressing the issues that the nation has been facing in the past decades of economic transition (Mironowicz, 2007, 2010). As planning academics engage very actively in international networks there is a constant flow of ideas and knowledge exchange which benefits programme development.

Although the current provision is well developed there is room for improvement. The establishment of a common system of accreditation for planning education across all different types of institutions would be helpful (Frank, et al., 2012). Also, at present, planning practitioners have no formal influence on the planning curriculum, which in the long term could result in graduates lacking skills that the market demands. However, with a shortfall of qualified planners, employability is not yet a problem. The decentralization of power post 1989 resulted in the establishment of a new planning tier with over 2400 communes requiring a host of spatial plans and only members of the Chamber of Town Planners (established 2000 by the State) can produce certain necessary and legally binding planning documents. As of 2008, there were approximately 1200 members of the Chamber of Town Planners<sup>25</sup>.

<sup>&</sup>lt;sup>25</sup>Chamber of Town Planners, n.d.

# 4.5 Slovakia

Similar to other countries in the former communist part of Europe, structural changes post 1989 led to far reaching substantive and procedural changes in the planning system of Slovakia. Amendments to the Spatial Planning and Building Act in 2003 established a progressive, hierarchical planning system which supports environmental and nature protection, town regeneration as well as seeking an even territorial distribution of development through urban-rural partnerships (Ryser and Franchini, 2008). This system requires planners to integrate land-use planning, landscape planning and socio-economic strategic planning across all levels – local, regional, national and trans-national.

## **Higher Education Structures**

Significant changes also occurred in the higher education sector. Firstly, following liberation from communist rule, the Federal Parliament of the (then) Czechoslovak Republic re-established the autonomy, freedom of scientific and artistic work and education, freedom of political and religious convictions and self-governance of higher education institutions (Parliament of the Czechoslovak Republic, 1990). After cessation in 1993, the new autonomous Slovakia commenced to modernise its higher education system, although, like in Poland, the system of specialised higher education with separate institutions for the humanities, natural sciences or formal sciences, "technical universities" and "universities of technology", medical universities, agricultural universities, universities of economics, pedagogical universities and art academies, that was put in place under communist rule was retained (Frank and Mironowicz, 2009). The ECTS was introduced in 1998 followed by legislation enabling the establishment of private HEIs (Parliament of the Slovak Republic, 2002). Also in 2002 Slovakia joined the signatories of the Bologna declaration. Thus, HEIs in Slovakia nowadays offer degree programmes in accordance with the Bologna Agreement: 3-4 years Bachelor (Bc.), 2-3 years Master (Mgr., Ing.) and 3-4 years doctoral.

Of the 33 institutions of higher education in present day Slovakia 20 are public, 3 are state and 10 are private institutions (Matulíková and Rehorovská, 2010). Public institutions are established by parliamentary law, financed by government and their own business activities. State universities are specialised, government funded institutions (e.g., medicine, military, police) established by respective state ministries. Private institutions, although not financially supported by the state, must nevertheless be approved by the Ministry of Education. Educational provision is restricted to disciplines defined in an official list of fields of study approved by the Ministry. New programmes must be accepted by the State Accreditation Committee and comply with the core curriculum issued by the Ministry.

## **History of Planning Education**

While the first university in present-day Slovakia was founded in the middle of the 15<sup>th</sup> century (Sikorová, 2007), higher education for technical fields began in the middle of the 18<sup>th</sup> century with the establishment of the Mining Academy in Banska Stiavnica, which in 1937 became the Slovak University of Technology (STU). The beginnings of planning education can be traced to the Academy in Banska Stiavnica, and its involvement in the creation of the system of artificial lakes, canals and technical works supporting the regional mining industry as well as infrastructure development and land reclamations along the rivers Danube and Vah.

The modern era of planning education is generally associated with the establishment of the Institute of Urban and Municipal Development in the Faculty of Architecture and Civil Engineering at the STU in

1948. The institute was developed into a Department of Urbanism under Emanuel Hruska, president of the National UNESCO Committee. Consistent with central European culture, spatial planning was conceptualized as a part of architecture. Specifically, "urbanism" representing urban design and landuse planning has been recognised as an architectural but relatively autonomous profession and study specialisation focused on physical and technical aspects of spatial development throughout the latter half of the 20<sup>th</sup> century.

#### **Planning Education Now**

Post 1989 changes to the planning system represent a clear shift in skills and competency demands for the profession which recently led to the establishment of a separate, independent study field called "Spatial Planning" in 2002 as part the legislation that also implemented the 1999 Bologna Declaration (Parliament of the Slovak Republic, 2002). In other words, spatial planning was introduced into the list of officially recognised study fields as autonomous degree at all three levels. In parallel, the study fields "Urbanism" and "Architecture" were merged into one: "Architecture and Urbanism." As planning education also continues to be offered as part of Architecture, Environmental Management and Landscape Architecture, the planning profession in Slovakia can draw on graduates with a rich set of generic and specialist skills and knowledge.

At the time of writing, the Slovak University of Technology in Bratislava with its Institute of Management is the only university in Slovakia offering programmes in spatial planning with approximately 200 students across all levels and years. The university also offers a Master in Urbanism as part of the architecture programme with about 20-30 students. Overall, there are over 100 different programmes dealing with planning-related issues (transport planning, environmental planning, landscape planning, regional development, etc.) or with fields supporting planning processes (e.g., analytical activities, evaluation) at the STU and other HEIs in Slovakia.

#### **Guidelines for Planning Education**

The introduction of the study field "spatial planning" guidelines were issued which describe the new field in the context of related fields. The guidelines also include minimum number of semesters and hours of study for each degree level, a typical graduate's profile in terms of skills and competencies, mandatory curriculum content and learning outcomes, minimum number of hours for specified knowledge areas and the content of the state exams.

Aside from "Spatial Planning" two other study fields are relevant for education in planning; these are *Architecture and Urbanism* and *Landscape Architecture and Environmental Management*. As *Architecture and Urbanism* covers only structural and land-use planning focusing predominantly on urban design, and *Landscape Architecture and Environmental Management* focusing on landscape planning and management, *Spatial Planning* is the degree that offers the most comprehensive set of skills. For Bachelor (Bc.) studies guidelines require 3 years of study (180 ETCS), for Master (Ing.) 2 years (120 ETCS) and for doctoral studies 3 years full time and 5 years part time (180 ETCS). For students with a background other than *Spatial Planning* institutions can extend the nominal duration of a master to 3 years to allow students more time for study.

The definition of spatial planning in the official description follows the European Charter on Spatial/Regional Planning (European Commision, 1983) where spatial planning is understood as a

synthesizing discipline. It is characterised as the geographic expression of the economic, social, cultural and ecological policies of society. Spatial planning is at the same time a scientific discipline, an administrative technique and a policy developed as an interdisciplinary and comprehensive approach aimed at well-balanced spatial development and a physical organisation of space which supports sustainability. The core of spatial planning is seen to comprise three integrative activities – land use planning, landscape planning and strategic socio-economic development planning. It includes activities such as environmental, transport, and infrastructure planning.

Spatial planning graduates therefore need to be able to manage spatial development across the entire spectrum of spatial scales. Special attention is paid to prepare graduates for their role as facilitators of public participation and mediators of conflicts among different stakeholders in spatial development.

## **Bachelor in Spatial Planning**

A bachelor is to be equipped with selected basic theoretical knowledge from natural and environmental, technical and social sciences, economics and urbanism as well as methods and instruments of landscape planning, socio-economic, land use, infrastructure and transport planning accompanied by an understanding of information and communication technologies. The education is completed by a state exam (Figure 9). The state defined undergraduate curriculum consists of around 60% of mandatory subjects; the remaining 40% of credits and hours can be defined by the institution based on topics addressing current problems in spatial development.

## Figure 9. Requirements for the Slovakian Spatial Planning Bachelor and Associated State Exam

## Basic theoretical knowledge

The bachelor in Spatial Planning requires knowledge in:

- physical and social geography, geology, hydrology, climatology, landscape ecology;
- applied mathematics, descriptive geometry, system theories and informatics;
- history of settlement structures and planning;
- civil engineering, infrastructural and transport planning, transport engineering;
- GIS and CAD systems;
- spatial planning theory and methodology including land-use planning, landscape planning and strategic socio-economic development planning;
- sociology, psychology and social ecology;
- regional economics and spatial economy;
- rural and urban development;
- management, communal and regional politics;
- law in the field of environment, land-use planning, economy, governance and territorial selfgovernance.

## Basic skills and abilities

The bachelor in Spatial Planning requires skills and abilities in:

- evaluation and identification of the development potentials of territorial units across different scales from district to national;
- assessment of spatial-structural characteristics of landscape with the focus on the identification of functional, socio-cultural and natural systems;
- implementation of spatial planning methods and instruments, including an understanding of their potentials and limits; and
- management of basic creative and implementation processes in spatial development.

Complementary knowledge, skills and abilities The bachelor in Spatial Planning is able to:

- organize his/her professional development and study,
- use information systems;
- communicate professionally with other disciplines, including the communication in a foreign language;
- collaborate in interdisciplinary teams; and
- manage public participation in the phase of decision making and plan implementation...

The state exam consists of

- elaboration and defence of the Bachelor thesis the strategy of the social and economic development and land use plan for a mid-sized city;
- assessment in four subjects: 1. Infrastructural and Transport Planning, 2. Spatial Planning, 3. Landscape Planning, 4. Strategic Planning.

## Master in Spatial Planning

According to the profile, a spatial planning graduate is to be able to analyse the conditions, features and values associated with territorial systems from natural and socio-economic aspects; s/he is able to assess the development, cultural and, ecological conditions, social and economic structures, historic assets, landscape aesthetics, land use and level of urbanization. The master in Spatial Planning is trained in ethics, and organisational and professional aspects of planning. Individuals are able to execute projects, and managerial as well as research activities. With expertise in the field of spatial development, environmental protection and strategic environmental assessment this individual is able to commence studies toward a PhD. The master curriculum allows graduates to develop an individual profile through a set of optional modules and choosing a topic for the master thesis. Basic and complementary knowledge and skill requirements as well as content of the state exam for a master degree in spatial planning are presented in the Figure 10.

# Figure 10. Requirements for the Slovakian Spatial Planning Master (Ing.) and associated state exam

Basic theoretical knowledge

The master curriculum requires knowledge in:

- theory of spatial development modelling;
- theory of geographic information systems (GIS);
- logistics;
- project management;
- applied system theory;
- infrastructural planning, urban and transport engineering;
- strategic environmental assessment and environmental impact assessment;,
- current trends in European spatial planning;
- social communication and participatory planning;
- economics and management in state government and self-government;
- social work and human resources management;
- urban and regional marketing and corporate identity of territorial subjects;
- EU law;
- scientific working, research methodology, and ethics;
- integrated development planning at the neighbourhood, local and regional levels.

## Basic skills and abilities

The master curriculum requires skills and abilities in:

- coordination of interdisciplinary teams in the field of strategic socio-economic development, landscape and land-use planning;
- coordination of cross-border spatial development and collaboration,
- evaluation of cultural, aesthetic and environmental values of the landscape;
- planning, management and development of instruments for the implementation of spatial development plans; and
- moderation of participatory planning processes and mediation of conflicts in spatial development.

# Complementary knowledge, skills and abilities The master is able to:

- work efficiently as individual, as team member or leader in the private, government or nongovernment sector;
- develop original theoretical knowledge and skills and creative potential in a sustainable way;
- be professionally and linguistically competitive in the European labour market.

The state exam consists of:

- an elaboration and defence of the master thesis containing a theoretical exploration of a selfdefined spatial problem and practical implementation in an appropriate territorial scale.
- an assessment in theory and methodology of spatial planning.

## **Doctoral Studies**

The PhD in Spatial Planning is expected to be able to apply various scientific methods to inventory, research, analyse and evaluate spatial development processes and structures as well as develop, propose and implement new approaches, instruments and methods in spatial development.

The PhD curriculum contains selected knowledge from a range of disciplines with emphasis on the integration of socio-economic, landscape-ecological, technological and psychosocial aspects, current problems and trends in spatial development. This is complemented by skills and knowledge on principles, approaches and methodology of scientific work. Graduates are able to develop creatively knowledge in respective areas of spatial planning theory and methodology, to formulate research problems, hypotheses, goals, procedures and instruments and to contribute to knowledge development in the discipline of spatial planning and practice.

## Programme curriculum in Spatial Planning: case study

The curricula and programmes in spatial planning at the Slovak University of Technology in Bratislava are used to illustrate the implementation of state guidelines in spatial planning across the three cycles of higher education (Table 15). Precondition of programme accreditation is that state guidelines, which prescribe 60% of the curriculum are met. The remaining 40% can be divided between classes drawing on the research specialisations of the institution and the individual interests of the student. The proportion of individual choice of subjects and modules by students increases from BSc (6%), via Master (14%) towards PhD level (75%).

Bachelor (Bc.)					
	Hours	ECTS	% Hours	% ECTS	
Basic knowledge	280	24	16	13	
Procedural, theoretical subjects	448	44	25	24	
Substantial theoretical subjects	252	23	15	13	
Projecting, Planning, Designing	672	85	38	47	
Complementary subjects	112	4	6	3	
/individual profile	112	7	0	5	
TOTAL in the BSc			100	100	
<b>State exam</b> including BSc diploma thesis (strategic develo Exam on land-use (territorial) plannii Exam on strategic planning and mar Exam on landscape and infrastructu	ng nagement	nd land-use pl	an) defence		
		ers (Ing.)			
	Hours	ECTS	% Hours	% ECTS	
Basic knowledge	84	12	8	10	
Procedural theoretical subjects	140	20	14	17	
Projecting, Planning, Designing	644	70	64	58	
		18	14	15	
Complementary subjects	14()				
Complementary subjects	140	10			
Complementary subjects /individual profile TOTAL in the MSc (Ing.) State exam including Master diploma thesis defence (d practice)	1008	120	100	100	
/individual profile TOTAL in the MSc (Ing.) State exam including Master diploma thesis defence (d	1008 ealing with s	120	100	100	
/individual profile TOTAL in the MSc (Ing.) State exam including Master diploma thesis defence (d practice)	1008 ealing with s spatial planni Doo	120 specific proble	100 ems of spatial de	100 evelopment/plannin	
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# Table 15. Programme structure for spatial planning education at STU, Bratislava

#### **Conclusion, Evaluation and Outlook**

The number of planning education programmes in Slovakia and hence planning graduates is limited. The autonomous spatial planning degrees are supplemented by a range of planning-related programmes offered at institutions with a technical profile. The recently developed definition of the core curriculum in planning was accomplished in close collaboration between academics and planning practitioners. This is a remarkable achievement in light of the fact that spatial planning practice is (still) dominated by professionals trained as architects with a specialisation in land-use planning. For now this dominance is safeguarded by a tradition which authorises architects to design and plan anything ranging from interior architecture to transnational spatial structures, irrespective of the fact that graduates with a background in architecture and urbanism are really not adequately prepared for the tasks of modern spatial planning and even land-use planning.

After years of debate, the Slovak Chamber of Architects has recently recognised spatial planning as an independent profession and announced its willingness to introduce a special authorisation to accept graduates in spatial planning as potential members. Activities at the European level, including recent documents of the EC (i.e., EU Sustainable Development Strategy, Leipzig Charter), and activities of planning organisations such as AESOP or European Council of Spatial Planners (ECTP-CEU) have played an important role in this process. There is hope that this special authorisation will be embedded in legislation in the near future.

# 4.6 United Kingdom

The UK planning system is well established with the twofold purpose of regulating land use and supporting sustainable development (Ryser and Franchini, 2008). This is done via national planning policy guidance which is interpreted and implemented at local level. Unique amongst European nations, the UK operates a liberal, discretionary system for development control whereby most applications are decided on a case-by-case basis at local level (Nadin and Stead, 2008; Booth, 2003). Planning as profession is self-regulated by the Royal Town Planning Institute<sup>26</sup> which exerts significant influence on planning legislation as well as planning education.

## **Higher Education Structures**

The United Kingdom, comprising of England Scotland, Northern Ireland and Wales, features 115 universities and some 45 other higher education institutions (Universities UK, 2010). Universities have considerable autonomy and there are substantial differences in the emphasis institutions place on research, education or outreach. Reflecting these portfolios, institutions are commonly categorised into research (old, red-brick) and teaching ("new", post 1992) universities. The latter were Polytechnics prior to the 1992 Further and Higher Education Act and focused primarily on practice-based education. Since then, however, many "new" universities have also developed a significant profile in applied research and consultancy. Planning education at Bachelor, Master as well as doctoral level is offered at both kinds of universities in equal measure; overall though programmes mirror institutional characteristics, i.e., being research-led or having a "Practitioner-Teacher" focus (Ellis et al., 2010). As in UK higher education the multiple cycle approach as well as quality assurance monitoring predated the Bologna declaration, the agreement created far less upheaval than on the continent. Indeed many disciplines perceived little need to review degree structures and as a result several anomalies and not entirely Bologna conform degrees continue to exist.

In England, Northern Ireland and Wales the first cycle is normally a 3-year Bachelor degree (or Diploma which is equivalent). In Scotland, a first cycle degree typically lasts 3-4 years depending on a student's entry qualifications and may be called Bachelor or confusingly MA (undergrad). The longer degree compensates for less specialisation in secondary education with Scottish Highers being only one year compared to the 2-year qualification of the English or Welsh A-levels. The second cycle represents master degrees, which normally require 12 months full-time study. Thus, UK masters are at the lower end for second cycle degree with only 90 ECTS (3 x 30 ECTS). Practically, students complete 2 taught terms worth each 30 ECTS followed by a thesis over the summer worth the remaining 30 ECTS. UK institutions also offer so-called integrated masters which require four years of study and lead to, for example, an MPIan (Master in Planning). Integrated master degrees fall 30 ECTS short of the minimum sum of credits required for a first and second cycle degree and are typically classed as undergraduate degrees. The comparatively shorter time to complete an integrated Master is justified by greater specialisation in the initial years of the degree. In times when master degrees in the UK required 2 years of study, integrated Masters represented a shorter and cheaper route. However, as standalone (non-integrated) Master degrees take nowadays generally only 12 months, savings are less substantial than in the past. Third cycle doctorate degrees take normally 3 three years (full-time) to complete.

<sup>&</sup>lt;sup>26</sup> RTPI was initially the town planning institute; Royal Charter was granted in 1959

#### **History of Planning Education**

The world-wide first formal planning education degree was established in 1909 at the University of Liverpool's Department of Civic Design (Batey, 1985), placing the UK firmly at the vanguard of advancing planning as profession and independent discipline. This degree was a postgraduate programme catering to professional architects, engineers and surveyors. The curriculum addressed issues of land use, street layout, legislation and hygiene in order to promote quality planning and design of town extensions. In 1914, a second postgraduate programme was established at University College London and in 1939 a further 4 recognised programmes were on offer at the Universities of Newcastle, Manchester and Leeds, and the Edinburgh College of Art alongside an equal number of unrecognised planning related degrees preparing students for the RTPI's entry exams (Healey and Samuels, 1981).

As the discipline matured, the conceptualisation of planning and planning education changed (e.g. Healey 1985; Dalton 2001; Frank, 2006). A significant change occurred after WWII when in 1945 and 1947 the first 5-year undergraduate degrees were established at Newcastle and Manchester (Healey and Samuels, 1981). The demand for gualified planners was bolstered by a new planning Act ratified in 1947. Moreover, a first major review of planners' qualifications (and their educational pathways) was published (Schuster, 1950), progressively promoting the interdisciplinarity of planning which was operationalized by the introduction of 2-year Master degrees (Batey, 1985). Student intake was widened allowing not only architecture, landscape architecture and engineering but also geography, politics, economics and social science graduates to enrol and foster the interdisciplinary discourse and teamwork. The curriculum shifted from a mere design and development control focus (Chandler, 1985) to include economics and geographical and statistical analysis methods. Planning practice began to embrace the rational-planning model as well as to consider issues such as transport, social issues and policy (Amos et al., 1973, Brown et al., 2003; Stiftel et al., 2009, 187). All of this led to a consolidation of the profession and planning education. By the early 1970s there were not only eighteen RTPI accredited Master programmes producing more than three hundred planners annually, but also ten undergraduate programmes with a student output of around sixty per year (Batey, 1985, p. 411; Amos et al., 1973). Many more degrees with closely related subjects existed in urban studies or transport planning but these were not sufficiently compliant with the stringent core curriculum of the RTPI to exempt students from the Institute's entry exams (Amos et al., 1973). With government cuts in postgraduate scholarships the ratio of undergraduate to postgraduate students in planning reversed by the mid-1980s (Batey, 1985). However, overall growth in programmes and student numbers continued more or less steadily and by 2001/2 around 3000 students were enrolled in RTPI accredited degree programmes across 30 institutions throughout the UK (Shaw et al., 2003).

At the start of the 21<sup>st</sup> century, UK planning education experienced wide-ranging changes triggered by the RTPI's comprehensive review of its membership and education approach (RTPI, 2003, 2004; Brown, et al., 2003). Embracing the concept of life-long learning, the Institute now requires individuals seeking chartered membership not only to have an RTPI accredited degree but to complete an assessment of professional competencies (APC) and to regularly engage in continued professional development. Conversely, the RTPI eased its requirements in respect to university education. The length of UG and PG courses was reduced to bring planning education in line with other professional degrees. This resulted in the abandoning of the time-tested 2-year master and replacing it with a 12 month Master, as well as introducing 3-year Bachelors. Education providers also gained more freedom in determining how and what they include in curricula as long as RTPI's learning outcomes were met. Formal accreditation audits for already accredited degrees were replaced by annual visits of

partnership boards which consist of academics and practitioner members (RTPI, 2003, 2004; Brown, et al., 2003). The reform spurred the development of new master degrees offering contemporary new specialisms such as an *MSc in Sustainable cities* or an *MSc in Planning and Climate Change* while raising the attractiveness of planning and student intake.

## **Planning Education Now**

Planning education provision in the UK is extensive and diverse (Ellis et al., 2010). As of September 2011, a total of 26 undergraduate, 45 spatial or combined and 30 specialist master degrees are offered across 28 UK higher education institutions (Table 15). Student intake per annum varies widely by institution from 15 to over 200 students at schools offering first and second cycle degrees. Three schools offer undergraduate degrees that include a full year in practice that can contribute to the APC requirement for RTPI membership (Frank, 2010) while many others include shorter periods of work-based learning (Higgins and Simpson, 1997).

Planning schools at four institutions (University of the West of England, Leeds Metropolitan University, London South Bank University and University of Dundee) and the Open University collaboratively offer Europe's only distance learning programme in planning (RTPI, 2011b) catering to a mix of international and non-traditional students. The programme was established in 1985 based on a commission by the Royal Town Planning Institute seeking to "replace professional examinations as a means to obtain chartered membership" (Allinson, 2008). The programme can be completed over a period of 3 to 7 years. Assessment is by a mixture of examinations, tutor-marked assignment and participation in university-based sessions for which each student is allocated to a study base at one of the consortium members' campuses. The main delivery mode was and is paper-based, allowing students considerable flexibility, but there are now attempts to modernise programme has around 200 students registered at any given point in time – 20% of which are overseas students with a majority from Cyprus, Malta, Singapore, the USA and Canada.

While, many UK planning schools are active members of AESOP, they often struggle to engage in EU mobility programmes. Differences in semester schedules, degree length and tuition fee levels create considerable barriers to participation. That said, Cardiff University has become a partner in an Erasmus Mundus masters for which students complete different elements of the degree at different institutions (Table 1, PLANET Europe). A recent trend is to design courses suitable for professional recognition from more than one professional body to increase a degree's market value. Typical combinations are RTPI and Royal Institution of Chartered Surveyors (RICS), RTPI and Chartered Institute of Housing (CIH), or RTPI and Institute for Logistic and Transport (ILT; for Transport planning masters).

## **Guidelines and Accreditation**

Quality assurance and accreditation of planning education is conducted via two parallel processes. On one hand all degree courses have to fulfil general quality assurance criteria and subject benchmarks set out by the host institution and the UK's quality assurance agency (QAA). On the other hand, there is the professional accreditation (or recognition) through the RTPI whereby course providers need to ascertain that RTPI's learning outcomes are met. Aside from undergraduate degrees, two types of master degrees are distinguished: the "spatial planning master" and a "specialist master" offering different pathways into the profession. A spatial planning master offers a general planning education

for individuals with a background other than a RTPI accredited undergraduate degree. Specialist masters cater to students with a general undergraduate planning degree. This reflects the philosophy that planners' generalist knowledge should be complemented with specialist knowledge for professional practice (Perloff, 1957). Degree titles typically provide clues in this respect with spatial degrees being labelled *Master in Town and Regional Planning*, or *Master in Spatial Planning* and specialist degree titles being *MSc in Transport Planning*, *MA in Urban Design* or *MSc in Environmental and Sustainable Development* and so forth. The most recent RTPI learning outcomes for planning curricula addresses this difference (RTPI, 2011a) (Figure 11).

#### Figure 11. RTPI learning outcomes (source: RTPI, 2011a)

Typical graduates from spatial planning programmes should be able to:

- 1. Explain and demonstrate how spatial planning operates within the context of institutional and legal frameworks.
- 2. Generate integrated and well substantiated responses to spatial planning challenges.
- 3. Reflect on the arguments for and against spatial planning and particular theoretical approaches, and assess what can be learnt from experience of spatial planning in different contexts and spatial scales.
- 4. Demonstrate how efficient resource management helps to deliver effective spatial planning.
- 5. Explain the political and ethical nature of spatial planning and reflect on how planners work effectively within democratic decision-making structures.
- 6. Explain the contribution that planning can make to the built and natural environment and in particular recognise the implications of climate change.
- 7. Debate the concept of rights and the legal and practical implications of representing these rights in planning decision making process.
- 8. Evaluate different development strategies and the practical application of development finance; assess the implications for generating added value for the community.
- 9. Explain the principles of equality and equality of opportunity in relation to spatial planning in order to positively promote the involvement of different communities, and evaluate the importance and effectiveness of community engagement in the planning process.
- 10. Evaluate the principles and processes of design for creating high quality places and enhancing the public realm for the benefit of all in society.
- 11. Demonstrate effective research, analytical, evaluative and appraisal skills and the ability to reach appropriate, evidence based decisions.
- 12. Recognise the role of communication skills in the planning process and the importance of working in an inter-disciplinary context, and be able to demonstrate negotiation, mediation, advocacy and leadership skills.
- 13. Distinguish the characteristics of a professional, including the importance of upholding the highest standards of ethical behaviour and a commitment to lifelong learning and critical reflection so as to maintain and develop professional competence.

Typical graduates from specialist planning programmes should be able to:

- 1. Engage in theoretical, practical and ethical debate at the forefront of the area of the specialism in the context of spatial planning.
- 2. Evaluate the social, economic, environmental and political context for the area of specialism
- 3. Evaluate the distinctive contribution of the specialism to the making of place and mediation of space.
- 4. Demonstrate the relationship within a spatial planning context of the particular area of specialism to other specialist areas of expertise.
- 5. Demonstrate the type and quality of skills that would be expected of a graduate from this the specialism undertaking the practice experience period of the APC.
- 6. Assess the contribution of the specialism to the mitigation of and adaptation to, climate change.

#### **Continued Professional Education**

Members of the RTPI are required to engage regularly in continued professional education (CPD). However, such activities are broadly defined ranging from a attending a lecture or conference to certificate programmes. While, some universities offer CPD on specialist topics to practitioners, not all universities find it economically viable to engage in this kind of provision and much CPD is provided through specialist consultants.

#### **Doctoral Studies**

Most institutions offer the possibility to gain a doctorate in planning. Intake is small with around 2-8 students annually per institution. To date there is no specific guidance for doctoral degrees in planning beyond that which is in place for third cycle degrees more generally in terms of research methods training, supervision, mentoring and progress monitoring. Similar to developments elsewhere in Europe, doctoral education in the UK has been shifting away from the individualized relationship between the supervisor and the student to include at least a second supervisor and regular progress checks. These developments seek to overcome the trap of the isolated research student, improve completion rates and offer doctoral candidates a wider forum for intellectual stimuli and exchange. However, the structure is not yet as developed as in other European countries where doctoral candidates are required to spent time in a different national context to acquire an international outlook or to accrue formal credits (e.g., Denmark).

#### **Conclusion, Evaluation and Outlook**

Planning in the UK is well recognised as a distinct profession and established mechanisms for selfregulation through its professional body. As membership in the professional body offers considerable benefits in furthering a planner's career and completing an accredited planning degree is the main pathway to membership, the RTPI's influence on planning education has been and is significant (Higgins, 2004). The Institute's approach to programme design has been criticized by academics (Amos et al., 1973; Healey, 1985) as over-prescriptive but it has undoubtedly helped to create and cement the demand for independent planning degrees. With the latest reforms to educational guidance in the first decade of the 21st century, planning schools obtained greater flexibility in curriculum design. This made dual accreditation of degree courses with two or more professional bodies more feasible and planning providers have increasingly moved into this direction. The dual recognition offers students greater career choices upon graduation while also making explicit any specialist planning knowledge a graduate may have. This improves both student employability and marketability of the degree. In terms of knowledge and skills areas the RTPI introduced some new topics such as climate change (rather than sustainable development) and leadership and community participation. Remarkably little reference is made to internationalisation or Europeanisation within planning education, although there is a need to develop multicultural competencies and an awareness of the influence of globalisation on planning issues. The intensity of UK programmes, concerns of students and programme providers in respect to potential problems for recognising credits earned outside the UK, and a low level of foreign language proficiency of British students has so far posed barriers to the uptake of European mobility opportunities. However, this is not an issue limited to the discipline of planning but more widespread in UK higher education. Several planning schools have actively explored means to increase international student experiences creating so called mobility semesters with option modules only. Perhaps the strongest contribution to internationalisation is the large foreign academic workforce teaching planning in the UK (Ellis et al., 2010).

	Deportment name	UG	PG comb			-
University	Department name	UG		PG special	doctoral	AESOP
Anglia Ruskin University	Department of the Built Environment		1			NO
Birmingham City	School of Property,	1	1			
University	Construction & Planning	1	1			
Cardiff University	School of city and regional	1	2	c) + 5		
(Wales)	planning	1	2	0) + 0		
Heriot-Watt	School of the Built	1	2			
University	Environment	1	2			
(Scotland)	Environment					
Kingston University	School of Surveying and		2			
	Planning		,			NO
Leeds Metropolitan University	School of the Built Environment		a) + 1	1		NO
Liverpool John	School of the Built		1			NO
Moores University	Environment		'			110
London South	Department of Urban,	1	a)	2		NO
Bank University	Environment and Leisure	·	+1	-		110
Durin officially	Studies					
Newcastle	School of Architecture,	1	4	2		
University	Planning and Landscape			-		
Oxford Brookes	School of the Built	3	2	7		
University	Environment	-				
Queens University	School of Planning,	1	1	2		
Belfast (NIreland)	Architecture & Civil Eng					
Sheffield Hallam	Faculty of Development and	*MPLAN1	1	1		
University	Society					
University of	Department of Land Economy		1			
Cambridge						
University College	Bartlett School of Planning	1	3	2		
London	_					
University of	School of Geosciences	4	2			NO
Aberdeen	Department of Geography and					
(Scotland)	Environment					
University of	Centre for Urban and		1			
Birmingham	Regional Studies					
University of	School of Environment and		1			NO
Brighton	Technology					
University of	College of Arts & Sciences,	MPLAN	1			NO
Dundee (Scotland)	School of the Built Envrnm.	1				
University of Glasgow (Scotland)	School of Social and Political Studies		3			
	School of Env. Sciences,	1	1			
University of Liverpool	Department of Civic Design	1	1			
University of	School of Environment and	BSc &	1	3		
Manchester	Development	MPLAN 2	1	5		
University of	Faculty of Science and		b) 1			NO
Plymouth	Technology		0)1			110
University of	School of Business, Dept. of	MPLAN	3			
Reading	Real Estate & Planning	1	0			
University of	Department of town and	MPLAN	3			
Sheffield	regional planning	1				
University of Strath-	Department of Architecture			1		NO
clyde (Scotland)						
University of Ulster	School of the Built	MPLAN				
(NIre)	Environment	1				
University of the	Faculty of Environment &	BSc,	a)	3		
West of England	Technology	MPLAN 4	+ 2			
University of	School of Architecture & the		2	1		
Westminister	Built Environment					

 Table 15: UK Institutions offering RTPI accredited planning degrees/ AESOP membership

 Westminister
 Built Environment
 Image: Comparison of the second s

c) PLANET Erasmus Mundus partner; also note: London School of Economics offers a planning masters and is listed in the Online resource table but not above as the programme is not RTPI accredited

## 4.7 Switzerland

Switzerland, like many European nations is facing major challenges in spatial development, including extensive urban sprawl and traffic congestion. Land is a scare and non-renewable resource – especially since 56% of the territory of Switzerland are considered uninhabitable (Keller and Blaser, 2005). The nation's constitution thus prescribes an economical approach to land use (Institute for Spatial and Landscape Development, 2008) promoting an integrated, re-use oriented development of existing settlements.

Switzerland's federal structure with 26 cantons, each having its own spatial planning regulations and the necessity to collaborate with neighbouring nations requires considerable cross-cantonal and cross-border coordination. To improve transboundary cooperation a novel concept of "regional action spaces" is currently being trialled. A regional action space defines a functionally connected territory across (parts of) two or more cantons within which cooperation should be intensified, and allowances need be made at all government levels to support this. The shift from administrative to functional space is meant to foster cooperation between the spatially relevant actors (various levels of public government and private) especially for difficult tasks. In addition, there is also recognition that formal planning instruments need to be complemented by informal processes and instruments.

Existing classifications for planning systems in Europe do typically not include the Swiss system, but it could be classed as "continental integrative-comprehensive" (Nadin and Stead, 2008) due to its strong similarities with German and Austrian planning systems. However, the practice of direct democracy whereby citizens are regularly invited to vote for or against infrastructure and building projects leads to an interesting planning dynamic not experienced elsewhere. The fact that Switzerland is a multilingual country with four national languages German, French, Italian and Rhaeto-Romanic) and a diverse topography ranging from fertile lowlands and foothills to barren, glaciated high-alpine areas adds further complexities for planners.

## **Higher Education Structure**

Switzerland has 12 universities (10 cantonal and 2 federal institutions) and 9 universities of applied sciences as well as a host of other higher education institutions specialising in arts, music, pedagogical or theological education. Educational matters are generally under the jurisdiction of the cantonal governments and the teaching language reflects the linguistic regions, while examinations are held, as a rule, in one of the four national languages (German, French, Italian and Rhaeto-Romanic) or English. In Switzerland, universities tend to provide more theoretically orientated scientific education, whereas universities of applied sciences (Fachhochschulen) have a more professional-applied orientation.

Following Switzerland's signing of the Bologna Declaration in 1999, an extensive structural and qualitative renewal of all institutions of higher learning and their programmes was initiated. All programmes use now the ECTS and levels and qualifications for awards have become more comparable and transparent. This has aided permeability between different institutional types and students completing a bachelor at a university of applied science have far fewer problems now to continue their studies for a second cycle degree at a university and vice versa.

First cycle degrees require 3 years (full-time study, 180 ECTS) and second cycle degrees require 90-120 ECTS or 1.5-2 years of full-time study. Requirements for third cycle doctoral degrees are set individually by the awarding institution. Doctoral education is only available at universities and not at universities of applied science. However, universities of applied science can offer postgraduate degrees or continuing education qualifications in the form of Masters of Advanced Studies (MAS), Diplomas of Advanced Studies (DAS) or Certificates of Advanced Studies (CAS). Entry requirements for any advanced degree (MAS, DAS or CAS) usually require a second cycle degree and several years of work experience. In contrast to second cycle masters (MA or MSc), advanced study degrees are usually not subsidized by government and therefore incur higher tuition fees than first and second cycle degrees (Figure 12).





## **History of Planning Education**

Traditionally, the majority of spatial planning specialists in active practice have achieved the corresponding professional qualifications through their practice and a postgraduate (Master) or continuing education programmes in spatial (or specialist) planning (CAS/DAS/MAS), which are extensions of a basic tertiary education in one of the spatial sciences such as architecture, engineering, or geography and were started to be offered from 1945 onward (Keller and Blaser, 2005). This approach reflects the philosophy of spatial planning education in Switzerland, which favours a spatially relevant basic academic education before proceeding to an education in the per se interdisciplinary or specialist areas of planning. Despite the geopolitical and linguistic fragmentation of the country, specialisation in planning for a particular area in Switzerland is not endorsed. Rather, planning education should support the diversity of planning tasks and the federal structure of the country. Spatial planning graduates therefore need to be able to understand spatially important questions, solve conceptual as well as concrete problems on a regional and national level. Interdisciplinary exchanges during the study period are considered vital, because anyone who has experienced the difficulties that need to be overcome in a collaborative effort between subject areas will be sensitized for problems commonly encountered in planning practice.

In practice, planning education is structured around projects, which are based on real, unsolved planning tasks in Switzerland. In addition to using methods and planning instruments to develop solutions, the exchange with experts from public administration, management, economics and politics are part of the training. This pedagogy cultivates an integrated approach to spatial problem-solving as well as hone students' team-working skills in preparation of professional practice.

## **Planning Education Now**

Planning education opportunities in Switzerland are geographically biased – with education as well as continuing education programmes only being offered in the German- and French-speaking regions of Switzerland. Moreover, the majority of planning education provision in Switzerland is at Master (4 programmes) and advanced studies level. There is currently only one 1st cycle general spatial planning education programme which is delivered at the University of Applied Science (UAS) of East Switzerland in Rapperswil (HSR).<sup>27</sup> Institutions in the French-speaking part of Switzerland do not provide a first cycle planning degree that leads to professional qualification and there is no provision whatsoever in the Italian or Rhaeto-Romanic-speaking regions (Table 16). And, although post Bologna, planning education provision has increased with the establishment of new advanced studies programmes (MAS, DAS, CAS) in specialised planning topics there is still at present a shortage of broadly educated (generalist) planners. Further, there is a need for planners who have, in addition to their expert knowledge, competence in methods and management (Scholl, 2002, p. 47).

Institution	1 <sup>st</sup> cycle	2 <sup>nd</sup> cycle	Doctoral education	Language	AESOP
	Bachelor	Master	& postgraduate/CPD, 3 <sup>rd</sup> cycle, CPD		
University of Applied Science of Eastern Switzerland Rapperswil	BSc in Spatial Planning (3 yrs)	MSc in Public Planning (1.5 years)	MAS in Spatial Development	German	yes
The Swiss Federal Institute of Technology (ETH Zürich)	BSc in Geomatic Engineering and Planning (3yrs)	MSc in Spatial development and Infrastructure systems MSc in Geomatic and Planning	Doctorate Master in Advanced Studies (ETH) in spatial Planning (2 years) CAS (ETH) in spatial Planning (6 months FT or PT depending), Various CPD programmes	German, English	yes
University of Geneva			CAS in sustainable urbanism, 2 semesters MAS in Ecourbanism, Urban Sustainability and Governance	French	
HES-SO University of Applied Sciences of Western Switzerland, Lausanne		HES-SO en Ingénierie du territoire		French	
University of Lausanne			Doctoral programme in "ville, urbanisme and mobilite", MAS in Ecourbanism, Urban Sustainability and governance DAS, CAS in Environmental strategy and economics	French	
University of Neufchâtel			MAS in Ecourbanism, Urban Sustainability and Governance	French	
Lucerne University of Applied Science			MAS in Community, City and Regional Development	German	

## **Guidelines and Accreditation**

With no state or professionally defined accreditation criteria for studies in spatial planning, institutions have considerable freedom to develop curricula in dialogue with practice stakeholders.

<sup>&</sup>lt;sup>27</sup> <u>http://www.hsr.ch/spatialplanung.1151.0.html</u>

#### **Bachelor in Spatial Planning**

The University of Applied Sciences (UAS) Rapperswil is the only Swiss institution offering a BSc in Spatial Planning leading to an application-oriented professional planning qualification. Prerequisite for acceptance into the programme is a vocational diploma in a spatially relevant profession such as architectural, spatial planning, photogrammetry or civil engineering draughtsman or -woman. Alternatively, students with a federally recognised Matura diploma (college entrance qualification) are also accepted following completion of a 12 months internship in a cognate profession. Graduates of the programme have considerable practical planning skills and basic knowledge in the areas of economics, law, politics, society, environment, transport as well as architecture and design. For most students, the bachelor's degree completes their education, but especially qualified and motivated students can continue to a master's. The programme graduates ca 30-35 students per annum.

While the BSc in Spatial Planning at UAS in Rapperswil is the only general and professionally qualifying 1<sup>st</sup> cycle degree in Switzerland, there is a possibility to obtain a 1<sup>st</sup> cycle degree in a specific aspect of spatial planning with the Bachelor of Science in Geomatic Engineering and Planning<sup>28</sup> at the ETH Zürich. Developed from a degree in cultural engineering, this programme is rooted in quantitative natural science and engineering with a focus on geographical information systems (GIS) as well as legal aspects. For this programme, applicants must have a federally recognised Matura diploma.

Career possibilities for graduates from both programmes include positions in private planning and engineering offices as well as in public administration.

#### Master in Spatial Planning

Entry to a master in planning will be offered to graduates from the above-described bachelor degrees or to graduates with a first cycle degree in a related discipline such as geography, engineering, environmental planning or architecture. In 2011, there were four master level programmes in spatial planning or spatial planning related disciplines on offer in Switzerland (Table 16) with an enrolment of nearly 300 students.

The MSc in Public Planning (90 ECTS, 1.5 years FT)<sup>29</sup> at UAS East Switzerland is oriented toward sustainable spatial, traffic and landscape planning, and includes cultural, economic, technical, and social knowledge area. Two projects, typically provided from contractors in the business or public sector, allow students to deepen their knowledge in a special subject and write a master's thesis. The two masters at the ETH Zurich each cover a specific aspect of planning. The MSc in Spatial Development and Infrastructure Systems (120 ECTS)<sup>30</sup> focuses on transport and traffic planning in the context of spatial development, while the MSc in Geomatic and Planning (90 ECTS)<sup>31</sup> provides education in geomatic and planning measurement and spatial development. Both programmes feature a project-based pedagogy. The fourth programme is a newly established degree with first student intake during the autumn 2011 at the UAS West Switzerland in Lausanne. This HES-SO (MSc) en Ingénierie du territoire (90 ECTS)<sup>32</sup> is taught in French and focuses on built space and its environment including topics such as geomatics, planning law, environment, mobility and landscape.

<sup>&</sup>lt;sup>28</sup> <u>http://www.geomatik.ethz.ch/bachelor/</u>

<sup>&</sup>lt;sup>29</sup> http://www.hsr.ch/MRU-Public-Planning.1238.0.html

<sup>30</sup> http://re-is.ethz.ch/master

<sup>31</sup> http://www.geomatik.ethz.ch/master/

<sup>32</sup> http://www.hes-so.ch/modules/formation/detail.asp?ID=289
# Advanced Studies and Continued Professional Education

As in Switzerland the education for spatial planners traditionally occurred at post-master level, a broad variety of advanced study degrees exist (MAS, DAS, CAS). They are usually provided via university institutes specialising in continued professional education.

In the German-speaking part of Switzerland, the Network City and Landscape (NSL)<sup>33</sup> at the ETH Zürich, for example, offers a MAS in Spatial Planning (90 ECTS)<sup>34</sup> which has been considered for many years the foremost professional planning education degree. This programme runs over two years part-time to accommodate working professionals with a background in architecture, geography, or planning law; prerequisite for acceptance is a minimum of two years of professional practice in spatial planning. Central to the programme are its interdisciplinary projects which typically focus on contemporary spatial problems in Switzerland and neighbouring countries. The newly established MAS in Spatial Development at the UAS in Rapperswil<sup>35</sup> is likewise designed for part-time study. It runs over five-semesters (60 ECTS) and focuses on project management, agglomeration planning, and guestions of mobility as well as the use of GIS in planning. By contrast, the MAS in Community, City and Regional Development (60 ECTS) at Lucerne University of Applied Sciences and Arts emphasises social and economic aspects of spatial planning. In the French-speaking region, the University of Lausanne in cooperation with the Universities of Geneva and Neuchâtel is offering a two-year MAS in Ecourbanism, Urban Sustainability and Governance (60 ECTS)<sup>36</sup> with a focus on urban ecology and sustainable development. In addition, a variety of shorter diploma and certificate programmes offer education and training in specialised areas such as the CAS (30 ECTS) in Planning for Urban Agglomerations<sup>37</sup> at the ETH Zürich. Overall, there are two main providers, the Network City and Landscape (NSL)<sup>38</sup> at ETH Zürich for the German-speaking parts of Switzerland and the Communauté d'études pour l'aménagement du territoire (CEAT) at UAS West Switzerland in Lausanne in the French language region.

# **Doctoral Studies**

Doctoral degrees in spatial planning related topics can be earned at either the ETH Zürich or the University of Lausanne. Responding to emerging guidance (e.g., Bergen Communique, 2005) for third cycle degrees which recommends providing more structure, research training and improved mentoring and supervision as well as international experience for doctoral students, several novel ideas have been explored in respect to doctoral education for spatial planning. In 2006, planning academics at the ETH Zürich initiated the Doctoral College Research Laboratory 'Space' <sup>39</sup>, a doctoral programme jointly run by a loosely coupled network of a total of six universities from Germany and Austria. Under the auspices of the Research Laboratory these institutions offer joint seminars and methods training for a cohort of around 30 doctoral candidates in planning studying at the six partner institutions. The objective was to provide opportunities for intellectual debate and effective cross-fertilisation of ideas for emerging researchers working on similar topics.

<sup>33</sup> http://www.nsl.ethz.ch/

<sup>34</sup> http://www.masraumplanung.ethz.ch/education/master/master11/index\_EN

<sup>&</sup>lt;sup>35</sup> http://www.hsr.ch/spatialentwicklung.5600.0.html

<sup>&</sup>lt;sup>36</sup> http://www.unil.ch/ouvdd/page46993.html

<sup>&</sup>lt;sup>37</sup> CAS Planen in Agglomerationsräumen, 15 ECTS (FHO), CAS Regionalentwicklung und CAS Gemeinde- und

Stadtentwicklung, je 15 ECTS (Hochschule Luzern),

<sup>&</sup>lt;sup>38</sup> http://www.nsl.ethz.ch

<sup>39</sup> http://www.forschungslabor-raum.info

#### **Professional Recognition**

The profession of spatial planners does not have an institutionally protected title in Switzerland. Possible sectors of employment are manifold and include private planning offices and public administration. Planners also work as experts in engineering offices, the banking, insurance and transport sectors. The use of a title after a successfully completed education or obtaining membership in a professional body such as the Association of Regional Planning (Verein für Landesplanung (VLP)), the Association of Swiss Spatial Planners (Fachverband Schweizer RaumplanerInnen (FSU)), the Swiss Engineering and Architecture Association (Schweizerischer Ingenieur- und Architektenverein (SIA)), or the Swiss professional registration board (Stiftung der Schweizerischen Register REG) may require different qualifications depending on regulations which differ between cantons.

#### **Conclusion, Evaluation and Outlook**

In sum, a range of different degrees offering planning education exist in Switzerland, however 2<sup>nd</sup> cycle and advanced study degrees dominate the provision. Educational opportunities are limited to institutions in the French and German speaking parts of the country. At all levels, spatial planning education is strongly anchored in practice featuring a project-centred pedagogy. Traditionally, there was a clear differentiation of graduates' competencies and aspiration depending on the institution they attended. The majority of graduates with a bachelor's degree were and still are active in local and regional planning, whether in a private planning office or in public administration at the community or cantonal level. Spatial planners with a master's degree are perceived to have management potential required for positions at cantonal and national level. However, the introduction of a modular degree structure under Bologna has created a more flexible higher education system. Differences between employment prospects for university graduates and graduates from universities of applied sciences are becoming increasingly blurred. Nevertheless, spatial planning research is still dominated by university graduates. In response to market demand for more qualified planners and new skills/knowledge areas, several new Masters in Advanced Studies degrees have been established recently including one in ecourbanism, sustainability and governance at the UAS West Switzerland in Lausanne.

Swiss planning educators are highly active in maintaining a cutting edge approach in planning education provision. At the ETH Zurich, for example, educators have experimented with novel formats of inter-institutional doctoral education and training as in the doctoral college research laboratory space (2006-2010). They have also led on a series of workshops and seminars with international contributors exploring thematic areas, skills and competencies critical for future spatial planning practice (Scholl, 2012). The following thematic areas were identified as vital for future spatial planning practice: a) Innovative and practice-oriented planning methods, instruments and processes, b) integrated spatial and infrastructure development, c) cross-border planning and spatial development; and d) urban Design. Pedagogically, projects were identified as a core element of an effective interdisciplinary planning education – while new possibilities for time- and location-independent learning (e-learning) need to be more and more adopted. This may be especially important in the Swiss context with its emphasis on advanced studies programmes catering to a market of professionals in the work place.

# Chapter 5. Educating Planners in Europe: Evaluation and Recommendations

This study's aim was to take stock and examine the level and character of the educational provision in urban, regional or spatial planning in European countries at the start of the 21<sup>st</sup> century. Building on previous studies, the goal was to better understand current trends and developments in the provision. A particular objective was to examine the impact of European integration policies, pan-European higher education reforms (Bologna Declaration, 1999) as well a general developments in higher education such as globalisation and massification upon education for planning, which has been traditionally nation- and context specific.

In sum, education for planning has evolved considerably from the initial post-professional programmes which were developed to up-skill architects, surveyors and engineers early in the 20<sup>th</sup> century in response to an emerging demand to provide better designs for town extensions. Curricula and focus of planning education has shifted for the most part beyond mere aesthetical, technical concerns to cover also social, environmental and economic aspects of city planning. Over the past decades, in particular, geographic information systems (GIS) training and to some degree simulation and modelling (transport, urban growth and environmental) have been integrated into many curricula in planning education, especially in schools with a technical focus. Interestingly, knowledge in GIS is listed as a requirement in Poland and Slovakia but is not explicit in the UK's RTPI learning outcomes. Sustainability, planning for resiliency and climate change, food and health as well as European-wide planning approaches are themes that are increasingly integrated in planning curricula.

Yet, concerns over the status of the discipline and guality and adequacy of the provision for planning are not unfounded and ought to be addressed to ensure future development, relevancy and support for the field. Independent and free-standing planning education degrees are still not the norm across European nations. The study reveals stark inequalities in the provision across countries corroborating findings from earlier reviews (Commonwealth Secretariat, 2011; Stiftel et al., 2009). The multitude of educational pathways and curricular orientations leads to a complexity and diversity that makes it not only difficult to compare degrees across national boundaries but also to specify a distinct identity of planning. The work of (inter)national associations and networks such as GPEAN, AESOP, APERAU and others in recent years as well as the guality assurance framework requirements stipulated for Bologna signatories has helped to increase awareness of existing diversities. This has improved prospects to enhance the provisions' quality through the exchange and dissemination of best practice in curriculum design and pedagogy. Educators need to urgently address how planning can reconcile national-professional needs with institutional demands to internationalise curricula. Relatively small planning education programmes that often rely on resource intensive pedagogies are increasingly vulnerable in light of rationalisation measures by institutions concerned about maximising research output and profit.

# 5.1 Level and character of educational provision

For the purpose of this study, the level of provision has been assessed, if crudely, by the number of institutions whereas the character of provision addresses programme content, format and pedagogy. The diversity of conceptions of what is understood by planning, let alone planning education, presented a sizable challenge and it became clear that our compilation will neither be entirely accurate nor complete. European or national level data on higher education does generally not offer sufficiently detailed subject classifications and as planning education is often provided within and under the label

of overarching subjects such as engineering or architecture (e.g., Finland, see 4.3 this issue), no comprehensive list of programmes for education in planning can be derived. Most up to date information is typically held by professional associations and networks of providers which have been our primary source. However, as planning is rarely part of the canon of regulated professions in European countries and therefore not subject to statutory control of qualifications and education awards, membership is voluntary and self-selecting. Thus, the existence of programmes providing planning education can easily be overlooked, especially if providers or institutions are not associated with any national or international professional bodies or organisations. The study's list of 218 institutions (see Online resource) offering planning education programmes of one sort or another, that allow graduates to practice planning from 36 of 47 Council of Europe member states and Kosovo is therefore a conservative account. It nevertheless represents an increase from the 155 institutions reported by Stiffel et al. in 2009 for Europe of around 1/3 and suggests a steadily rising level of importance and recognition of the field.

As a very rough evaluative measure we deem the provision comparatively *excellent* for countries with population to institution ratios of up to 5 million: 1 and *medium* for those with ratios of 5-10 million: 1 (Table 2). This leaves five nations (aside from very small nations such as Liechtenstein and those where no verifiable information could be obtained) where the provision for planning education appears underdeveloped: Hungary, Romania, Russian Federation, Spain, and Ukraine. The classification is basic at best and requires improvements in future but it offers at least some indication of the opportunities for developing planning capacity available in various nations. It can be criticised from many different perspectives. Some programmes offer many more study places than others and ideally the quality of provision needs to be considered for a more balanced judgement. One could also argue that there may be a higher demand for planners in countries with a high level of urbanisation, but in light of emerging notions that planning is a key contributor for sustainable land and resource use such thinking may be misguided. Indeed, planning today covers much more than just the urban realm (e.g., Dalton, 2001; Blanco et al., 2009a, 2009b; Birch and Silver, 2009).

Education leading to professional planning qualifications is offered in various formats: 1<sup>st</sup> (Bachelor or traditional long-continuous) and 2<sup>nd</sup> cycle (Master) degree, post-professional awards (the latter are sometimes classed as 2<sup>nd</sup> cycle but also as CPD depending on programme length) and as specialisation within other fields of study. It should be noted that post-Bologna reforms, in many countries, professional associations do not deem a first cycle Bachelor sufficient for professional practice in planning. Interestingly, a Master in planning, regardless if the first degree was in planning or an unrelated subject, does provide a professional qualification. Doctoral degrees in planning are also offered and are becoming increasingly necessary for those wishing to work in academia.

The case studies illustrate clearly that education for planning in Europe assumes different models and formats in different countries. Rodriguez-Bachiller (1988, pp.188-213) identified several educational models each of which can be associated with particular conceptions and professional ideologies of planning and the planner. With minor adjustments the same three models, each matching particular ideologies, can still be observed in the current provision (Table 17).

Model one conceives planning as a part of an established profession or field of study. It is the prevalent model for planning education in Spain and to a lesser degree in Portugal where a few comprehensive-integrated programmes were established along the way. Under this model, planning education is delivered as minor or major specialisation in, for example, architecture, engineering, geography or sociology, with curricula containing on average between 5-15% content related to

planning. Interestingly, in Portugal, civil engineering programmes have a greater market share in respect to planning education (Pereira and Quadrado, 2010) while in Spain architecture is more prevalent. An alternative model provides education for planning via postgraduate, post-professional degrees; it is an expression for the conception of planning as an extension of other disciplines or fields such as geography, politics, or law and is the dominant (although not the only) format applied in Switzerland. Planning as a distinct professional field and discipline in its own right, perhaps the preferred conception by planning academics, is supported by the integrative-comprehensive model three. It has been widely adopted in the UK but matches also the newly developed curricula in Slovakia and Poland.

Considering the developments over the past two-three decades, it seems that planning education has not converged on a single, preferred educational approach but entertains a greater plurality of models today *within* nations than at the time of Rodriguez-Bachiller's study. This can be seen as positive, flexible and effective response to market conditions to provide professional skills and knowledge for the wide range of roles that planners are to assume (ECTP, 2003). However, it may not necessarily be helpful in providing a unified image of the planning profession and planning as a discipline.

	ldeology	Education model(s)	Primary examples
1	Architect-planner/engineer-planner (here planning is associated as belonging to one discipline representing a particular specialization within) <i>Intuitive, technical, applied</i>	<ul> <li>Technical</li> <li>a) Professional programme in architecture or engineering with a relative limited proportion of modules focusing on planning/larger scale issues; longer programmes are better for this (see Spain);</li> <li>b) consecutive bachelor and master in Architecture/ Engineering</li> </ul>	Spain, Portugal, Bulgaria, Croatia, Albania, Czech Republic, Denmark, Finland, Italy, Netherlands, Norway, Poland, Russia, Sweden, Greece
2	Planning as an extension of various social sciences whereby the planner is either a generalist coordinating the practice of interdisciplinarity or as a specialist having a particular spatial understanding of politics, or an applied notion of geography etc. <i>Analytical, academic, (applied) – planning as</i> <i>a supplemental qualification</i>	<ul> <li>Postgraduate/academic</li> <li>a) Postprofessional awards (e.g., urban management /administration)</li> <li>b) Master catering to students with a social science/other technical background</li> <li>c) Planning as Specialisation in bachelor or master of Politics, geography, law</li> </ul>	Switzerland, Germany, Spain, Norway, UK, Greece
3	Planning as an independent discipline with a core of its own; planners as professionals are experts in this and manage core techniques – or specialize in various methods of interdisciplinary analysis, normative policy development etc.	Integrative-comprehensive a) Independent autonomous programmes in planning b) Consecutive bachelor-Master combinations	UK, Austria, Greece, Germany, Poland, Slovakia, Netherlands, France, Italy, UK

#### Table 17. Educational Ideologies and Models for Planning

A limited implementation of the integrative-comprehensive model, aside from cultural reasons, can possibly be related to costs. The model entails a mix of academic and practical, analytical-theoretical with applied, intuitive and creative skills and knowledge, which pedagogically needs to be supported by project/studio, problem-based learning (e.g., Scholl, 2012) and, ideally, work experience. For a small field that at present lacks major government endorsements (such as the technology sector) it will be difficult to maintain and justify high level education expenses especially with increasing resource scarcity and pressures to reduce teaching cost. It will matter little if costs are internalised (i.e., covered by public state subsidy) or externalised through tuition fees. Moderate income prospects and social standing of planning professionals will not justify spending disproportional public or personal funds toward gaining a planning degree.

With the exception of one distance learning programme, planning education so far has not engaged much with novel approaches to programme delivery and online pedagogies. A reason might be that start-up investment in online provision is significant and cannot easily be supported by relatively small planning schools. More, the subject itself may not be suited to online delivery as a significant portion of planning skills development relies on team work, personal interaction and communication rather than individual study. Key pedagogies for planning education as identified by Scholl (2012), i.e., workshops and projects, are not easily delivered remotely. Yet, with access to technology becoming more ubiquitous (skype©, videoconferencing etc.) it may be worthwhile for providers to re-examine the use technologies in order to prepare graduates for future oriented work routines while also offering more flexible access to education. The exploitation of media and remote working technologies could potentially also address issues of international mobility of home and foreign students.

Planning education programmes are not only diverse in format but also in terms of curriculum content and pedagogy. Unlike in other fields (Frank et al., 2012) there are no international standards or guidelines for planning education however desirable (Harrison, 2003). AESOP has developed a generic core curriculum (Figure 3) and updated it about a decade ago but it has no binding character. National level guidance for curricula and accreditation of programmes remain the norm but even those do not exist in every state (see Grams and Scholl, this issue). The style of guidelines varies from prescriptive apportioning of study time for certain subjects (e.g., Poland) to a list of learning outcomes. In this latter format it is up to the provider to demonstrate how and through what teaching these learning outcomes are achieved. The recent changes in Poland indicate that the learning outcomes approach may become more common in future. Not having to fight over the apportionment of study hours per subject will likely ease creating common criteria.

The need to regularly adjust programme contents to skill requirements has been highlighted by Keller and Blaser (2005). Updating of curricula content is triggered through either educator-practitioner dialogue (Switzerland,) and /or formal professional or governmental guidelines (UK, Slovakia or Poland). Indeed, in Poland and Slovakia planning education programmes have been established following government determined core curricula precisely to address identified skills and knowledge gaps in spatial planning. In the UK, concern about the integration of environmental and sustainability issues in planning education has lately been shifted to recognising and mitigating implications of climate change as per the most recent version of learning outcomes (RTPI, 2011a).

Throughout Europe, the link of educational programmes, their curricula and the profession varies. In some countries professional bodies have direct influence on curricula by setting learning outcomes and participating in the accreditation of programmes, in others there is little dialogue or influence. While there is overall more oversight on programme quality, as in the wake of Bologna (see also

3.3.3), quality assurance requirements have been implemented throughout the signatory countries, accreditation alone – especially if it is along state determined guidelines cannot guarantee that degrees provide the right level of skills and knowledge to ensure graduate employability. In some countries professional bodies have asserted their disproval of curricula in rejecting 1<sup>st</sup> level degrees as sufficient for professional practice in planning and related disciplines. Reports that pedagogy and curricula have not kept pace with practice as, for example, in Finland, where surveys of professionals suggest that the current provision falls short in offering the requisite skills and knowledge planners feel they need for practice are disconcerting. There is a need by education providers to make curricula relevant to future working conditions (European University Association, 2003) but, a relationship between education providers and professional bodies that is too dependent is also not desirable and could stifle the development of the field (Frank et al., 2012).

#### 5.2 European developments and emerging trends

A range of recent European developments have influenced the provision of planning education. For example, the demise of communism, the liberation of Central and Eastern European nations and the expansion of the EU has resulted on one hand in revisions of planning practices and subsequently the education for planners (e.g., Frank and Mironowicz, 2009), and on the other hand it has triggered a reorientation of spatial planning research and teaching on European matters (Jammal, 1993).

As the case studies of Poland and Slovakia illustrate, trajectories for the development and change of planning education are guite different in comparison. This uneven development applies to the entire former Eastern bloc nations. In both, Poland and Slovakia planning is a recognised profession and increasingly independent from architecture or other cognate subjects. At present a more structured institutional framework and partial regulation via the Chamber of Planners (Frank et al., 2012) has been implemented in Poland whereas the links between academia and practice seem to be stronger in Slovakia. Both countries have embraced an integrated-comprehensive model for education in planning but, while in Poland, education in planning has proliferated rapidly with new programmes being set up by a range of faculties from economics to architecture in Slovakia only one institution has implemented the new curriculum in "spatial planning." So even when the different population and size of the two countries are taken into account, Poland has 5 times more opportunities for planning education than Slovakia. Adaptations and development of planning education and curricula are progressing much slower in some of the other Central and Eastern European countries such as Romania, Czech Republic and Bulgaria where planning education mostly follows model one (e.g., Maier, 1994). In Albania comprehensive-integrated planning education programmes are being offered to date only in specialised private institutions.

European integration, which includes the above mentioned Eastern expansion but also builds on the establishment of a common economic market, political reconciliation and increasingly seeks to enhance the competitiveness of European countries at a variety of levels in the global context does not just effect planning education in Central and Eastern European countries. The process gained significant momentum in the late 1990s (e.g., Faludi, 2010) with the publication of the European Spatial Development Perspective (CSD, 1999) and the success of planning related programmes (e.g., INTERREG) which have stimulated a cross-national policy exchange on unprecedented scale. In conjunction with long standing initiatives such as the ERASMUS mobility and exchange programmes, and the Bologna Declaration (1999), this has led in our view to an emergent "Europeanisation" of (planning) education programmes. While definitions of "Europeanisation" in the literature are contested

(Radaelli, 2004), the term is used here liberally to mean a diffusion and institutionalisation of shared ideas, concepts and structure with a focus on Europe amongst European institutions.

In this sense, "Europeanisation" is reflected in new curriculum content whereby a growing number of providers are including European-wide planning topics and instruments in their curricula in order to prepare students to use European instruments effectively and work in a European labour market. A number of specialist Master degrees on European spatial planning have also been created. Additionally, "Europeanisation" becomes manifest in programme structure, formats and delivery. The (ongoing) Bologna reforms have and are establishing increasingly similar programme structures (although there is still considerable variance in implementation, nationally) and have facilitated the establishment of quality assurance frameworks. It has also created unexpected opportunities for rethinking planning education and adopting formats that may better fit prevailing ideologies. For example, in Portugal programme restructuring to achieve Bologna compliance has led to a reduction in model one but also in comprehensive-integrated undergraduate programmes (model three) provision. There is only one bachelor in planning left at the private Lusófona University in Lisbon. In Germany and the UK more and diverse specialist and spatial masters in planning were developed (Frank and Kurth, 2010). This suggests, for good or bad, in the longer term there may be a trend towards model 2 and the planning as extension of other disciplines approach as is prevalent in the USA. Finally, unique European delivery models are also emerging with integrated student mobility within Europe as a part of the study experience through the intensive programmes, or innovative Erasmus Mundus master and doctoral degrees where students study at different institutions and countries over the course of their degree, not seldom in different languages as well. These new degrees represent novel opportunities to gain wider understanding of planning cultures, systems and context.

For the third cycle, Bologna has triggered major adjustments to more systematic research training for doctoral studies. There is generally an effort to provide greater support, a cumulative credit system and encourage several months of research or experience at another institution to foster the development of broader knowledge. Academic networks such as AESOP or APERAU actively support the interaction and exchange amongst young/new planning academics and researchers.

At the same time, higher education institutions are engaging increasingly in an economically minded internationalisation seeking to attract non-European students by also switching to greater levels of English language provision of programmes. The debate about how European planning issues can be reconciled in a curriculum catering to large numbers of Asian and Middle Eastern students has not been had – except in parts of the sector in the UK (Peel and Frank, 2008) but with no clear strategy emerging. Especially unclear are the implications for the link between academia and the profession. In general, a one-world approach to planning education has a greater theoretical-academic focus, emphasising principles but not necessarily local practice, which might not be desirable. A focus on local practice alone will not be valuable to foreign students and longer term may also not serve home students as employers increasingly expect global competencies (e.g., Greif, 2012). This suggests that in future perhaps undergraduate provision will become less viable especially if it focuses on local planning practice with a rise in master level provision (Model 2, Table 17).

The differential status of the planning profession across Europe, the different conceptions and ideologies for planning and the planner create an obstacle to cross-national mobility of planning professionals in the European and international labour markets. Degree portability however is becoming increasingly a concern for graduates in a globalising world. International professional associations have started to address this. At the same time schools are looking increasingly to

benchmark themselves against others looking for some kind of international quality label or accreditation. While APERAU is accrediting its member schools, AESOP is currently only offering advice through its so-called expert pool. Albeit highly problematic due to the diversity of national models for accreditation and quality assurance, calls for some form of international level accreditations have been arising occasionally (e.g., Harrison, 2003), but have so far not been implemented (Frank et al., 2012). A new initiative under the leadership of the ECTP-EU (2013a, 2013b) is currently underway to establish a common set of criteria, skills and knowledge in an effort to facilitate cross-national recognition of planning qualifications in Europe.

# 5.3 Recommendations

The review provides considerable food for thought. The field could definitely benefit from collaborative joined-up actions geared to enhance the profile and recognition of planning and make explicit its contributions to society by planning schools and professional societies. Although the future and shape of the European Union as a transnational body of governance and joint market might be unclear, there is little doubt that an internationalisation and Europeanisation of labour markets and higher education will continue. To strengthen the recognition of planning as a field in its own right we propose:

- to conduct regular monitoring of supply and demand for planning education across Europe. As
  we move to a more open, barrier-free EHEA it will be vital to have cross-national educational
  databanks and information as basis for higher education policy decisions, to raise awareness
  of what the field can contribute to solve societal problems, and for marketing to interested
  students and publishers. The EU platforms for searches of suitable project partners could be a
  model for a networked database of education provisions where those willing to seek out
  educational offers can develop their own cross-national education programmes. AESOP,
  APERAU, TUPOB, and other national planning schools associations may want to collaborate
  to produce the cornerstones of such an information set.
- to develop and implement a model of European-wide recognition of qualifications and agreed pathways to professional practice which is linked to programme accreditation and educational guidelines; although professional and academic associations such as AESOP and ECTP-CEU have started to cooperate on a scoping study (ECTP-CEU, 2013a, 2013b), further means will have to found to progress this so within the framework of the European Programmes in 2020 the profession has a more 'European' profile and cross-national qualification recognition. Ultimately this might help to enhance quality and standards of degree programmes.
- to engage in documenting the achievements of planning and planners to urban development, resiliency, sustainability and enhancing quality of living environments.
- to engage in work on profiling different conceptions of planners and planning and monitor professional requirements on a regular basis, to ensure high levels of graduate employability and assure the relevance of degree programmes in higher education.
- to improve the understanding of HE administrators of planning as a professional field; with the identified future focus on HE performativity (Barnett, 2000; 2004) planning should take advantage of it dual orientation as both a discipline and professional field preparing the ground for a new type of independent cognitive field with innovate pedagogic approaches marrying

academy study and rigorous research training with experiential and reflective practical learning.

 to examine the impact of new inter-institutional programmes on the profiles of planning graduates, to consider internationalisation impacts on the planning curriculum and to explore new pedagogies (online, conference style, and work-based study) to ensure the fields competitiveness, bridge practice and theory development to support reflective practice in students and professionals.

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# Appendix

# Table I: Planning Schools inventory

Country (# of institutions)	Planning Schools/Departments at Universities & Location	Bachelor /Undergraduate Degree, i.e.1इ cycle under Bologna agreement/ (Number of years)	Master /Postgraduate Degree Title, i.e., 2 <sup>nd</sup> cycle under Bologna agreement)/ (Number of years)	Other, e.g. Planning as specialisation in a programme, or foundation programme (Number of years)	Doctoral (Number of years)	Number of graduate s 2010ª	Total number of student enrolled 2010 <sup>b</sup>	Language of provision	Number of academic staff ft /pt	AESOP member
	POLIS University, Tirana International School of Architecture and Urban Development Policy	BSc Diploma in Urban Planning (4)	MSc in Urban Planning and Management					Albanian		YES
Albania (3)	EPOKA University, Tirana Department of Architecture			MSc in Architecture with specialisation in Urban Planning and Design (Long-cycle, 5)	YES (3)			Albanian English	10/5	YES
•	Technical University of Albania, Tirana Department of Urban Planning and Urban Design			Long-cycle (5) programme	YES (4)	650		Albanian	38 / 40	NO
Armenia (1)	Yerevan State Institute of Architecture and Construction*									NO
	Vienna University of Economics and Business Administration, Institute for the Environment and Regional Development			MA (4 with one year of specialisation in Regional development and environmental planning	YES			German	6 FTE	YES
Austria (3)	Vienna University of Technology, Faculty of Planning and Architecture	BA in Spatial Planning (3)	MA in Spatial Planning (2)					German	44	YES
A	University of Natural Resources and Applied Life Sciences, Vienna Department of Spatial, Landscape and Infrastructure Science	BA in Landscape architecture and landscape planning (3)	MA in Landscape architecture and landscape planning (2) MA in Land management and civil engineering (2)					German		YES
	ISURU – Institute Superieur d'Urbanisme et de Renovation Urbane, Brussels	Diploma in Town Planning (3 + thesis)						French		YES
Belgium (3)	University of Ghent, Department of Planning		MA in Urbanism and spatial planning (1 ft 2 pt) Postgraduate MA in Planning (1 ft, 2 pt)					Dutch	6	YES
	Catholic University of Leuven, Department ASRO		MA in Urban and Regional Planning (with University of Ghent, 2)					Dutch	5	YES

Country (# of institutions)	Planning Schools/Departments at Universities & Location	Bachelor /Undergraduate Degree, i.e.1st cycle under Bologna agreement/ (Number of years)	Master /Postgraduate Degree Title, i.e., 2 <sup>nd</sup> cycle under Bologna agreement)/ (Number of years)	Other, e.g. Planning as specialisation in a programme, or foundation programme (Number of years)	Doctoral (Number of years)	Number of graduate s 2010ª	Total number of student enrolled 2010 <sup>b</sup>	Language of provision	Number of academic staff ft/pt	AESOP member
Bulgaria (1)	University of Architecture and Civil Engineering and Geodesy, Sofia Faculty of Architecture	BSc Urbanism (4)	MSc in Urbanism (1.5)	MA in Architecture (5.5, of which 1.5 specialisation in Urban Planning)					14	YES
Croatia (1)	University of Zagreb*			BA in Architecture and Urban Design (3) MA in Architecture and Urban Design (2)						NO
blic	Brno Technical University, Urban Design and Planning Institute Faculty of Architecture			BSc in Architecture and Urban Design (4) Master in Architecture and Urban Design (2)						YES
Czech Republic (3)	VSB Ostrava Technical University, Department of Urban and Civil Engineering Faculty of Civil Engineering			BSc Architecture and Civil Engineering (4) MSc in Urban and Municipal Engineering (1.5)					8	YES
0	Czech Technical University, Prague Faculty of Architecture			BSc in Architecture (3) Ing.Arch/MSc in Architecture and Planning/Urbanism (2)					24	YES
Denmark (2)	Aalborg University, Institute of Development and Planning	BSc in Engineering, Planning & Environmental Management (3)	MSc in Urban Planning and Management (2) MSc in Engineering and Urban Design (2) MSc in Real Estate, Land Management and Planning (2) MSc in Environmental Management (2) MSc in Sustainable Energy Planning and Management (2) <i>All taught in English</i>		YES	27	50	Danish, English	30	YES
	Aarhus School of Architecture Department of Landscape and Urbanism	BA in Urban and Landscape Architecture and Planning	MA in Urban and Landscape Architecture and Planning		YES			Danish	10	YES

Country (# of institutions)	Planning Schools/Departments at Universities & Location	Bachelor /Undergraduate Degree, i.e.1st cycle under Bologna agreement/ (Number of years)	Master /Postgraduate Degree Title, i.e., 2 <sup>nd</sup> cycle under Bologna agreement)/ (Number of years)	Other, e.g. Planning as specialisation in a programme, or foundation programme (Number of years)	Doctoral (Number of years)	Number of graduate s 2010ª	Total number of student enrolled 2010 <sup>5</sup>	Language of provision	Number of academic staff ft /pt	AESOP member
IJ	Estonian University of Life Sciences,Tartu Department of Geomatics									YES
Estonia (2)	University of Tartu Department of Geography	BA in Geography (3)	MA in Geography with the specialisation in Regional Planning (2)		YES (4) Specialisation in Human Geography and Regional Planning			Estonian	53 / 14	YES
	Aalto University, Espoo School of Science and Technology Centre for Urban and Regional Studies		Postgraduate Degree (1)	Short CPD courses for further education; also International Summer school (2 weeks) for young planners and architects				Finish, English	25	YES
	School of Science and Technology Centre for Urban and Regional Studies		MSc Managing Spatial Change (start 2011)				20 (2011)	English		YES
Finland (4)	Tampere University of Technology School of Architecture, Urban Planning and Design		M.Arch Urban Planning and Design (5.5)					Finish	7	YES
	University of Oulu Department of Architecture			Planning as specialization within MA Architecture (5.5)				Finish	5	YES
	University of Helsinki Faculty of Science Department of Geosciences and the Geography, Planning Geography			Planning as specialization with MA Geography				Finish	1	NO
ω	Université Paul Cézanne d'Aix Marseille III Institut d'Urbanisme et d'Aménagement Régional - I.U.A.R.		MA in Urbanism and Urban Planning with the specialization in Sustainable Urbanism and Territorial Projects					French		YES + APE RAU
France (20)	Université Lumière Lyon II Institut d'Urbanisme de Lyon	BA in Urbanism and Planning (1)	MA in Urbanism and Planning (1) MA in Urban Planning (Professional Orientation, 2) MA in Cities and Societies (Research Orientation, 1)					French	15	YES + APE RAU

Country (# of institutions)	Planning Schools/Departments at Universities & Location	Bachelor /Undergraduate Degree, i.e.1st cycle under Bologna agreement/ (Number of years)	Master /Postgraduate Degree Title, i.e., 2 <sup>nd</sup> cycle under Bologna agreement)/ (Number of years)	Other, e.g. Planning as specialisation in a programme, or foundation programme (Number of years)	Doctoral (Number of years)	Number of graduate s 2010ª	Total number of student enrolled 2010 <sup>b</sup>	Language of provision	Number of academic staff ft /pt	AESOP member
	Université de Paris VIII – Vincennes- Saint-Denis Institut Français d'Urbanisme (IFU)	BA in Urban Studies	MA in Urbanism and Planning					French		YES + APE RAU
	Université de Nantes UFR de Droit, de Géographie et Aménagement et Ecole d'Architecture DESS Villes et Territoires		MA in Sciences and Techniques in Urban Environment MA in Cities and Territories: Urban Policies and Practice					French		YES + APE RAU
	Institut d'Etudes Politiques de Paris Cycle Supérieur d'Urbanisme de Sciences Politiques		MA in planning, urban management and development (1,5)					French	40	YES + APE RAU
	Université de Paris XII: Val de Marne Institut d'Urbanisme de Paris		MA in Town Planning (2)					French	24	YES + APE RAU
	Université Paris IV Sorbonne, Institut d'Urbanisme et d'Aménagement de Sorbonne		MA in Urban Planning (2)					French	12 / 26	YES + APE RAU
	Université de Reims Champagne- Ardenne IATEUR - Institut d'Aménagement des Territoires, d'Environnement et d'Urbanisme de Reims		MA URB'EA (2 ft, 4 pt)		YES (3 ft, 6 pt) in planning and sustainability		-/26	French English	8 / 15	YES, + APE RAU
	Université Michel de Montaigne Bordeaux 3 Institut d'Aménagement de Tourisme et d'Urbanisme (IATU)	BA in Geography and Planning, track Urban Arrangement and Sustainable Territorial Development (AUDTD)	MA in Urbanisme and Sustainable Planning					French		YES + APE RAU
	Université Pierrre Mendes-France Institut d'Urbanisme de Grenoble (IUG)							French		YES + APE RAU

Country (# of institutions)	Planning Schools/Departments at Universities & Location	Bachelor /Undergraduate Degree, i.e.1st cycle under Bologna agreement/ (Number of years)	Master /Postgraduate Degree Title, i.e., 2 <sup>nd</sup> cycle under Bologna agreement)/ (Number of years)	Other, e.g. Planning as specialisation in a programme, or foundation programme (Number of years)	Doctoral (Number of years)	Number of graduate s 2010ª	Total number of student enrolled 2010♭	Language of provision	Number of academic staff ft /pt	AESOP member
	Université de Bretagne Occidentale, Brest Institut de Geoarchitecture	BA in Planning, Development and Environment (3)	MA in Planning, Development and Environment (2)					French	10 / 20	YES + APE RAU
	Université de Lille 1 - Sciences et Technologies Institut d' Aménagement et d'Urbanisme de Lille	BA in Geography and Planning (3) with the specialization 'planning, environment, urbanism'	MA in Urban Planning and Development (2, in English for the specialization 'Eurostudies')		YES (3) in geography and planning			French English	35 / 45	YES + APE RAU
	Université de Paris I – Panthéon- Sorbonne		MA in Urbanism and Planning					French		YES
	Ecole Polytechnique François Rabelais de L'Université de Tours Département Genie de l'Aménagement		MSc Planning and Sustainability: Urban and Regional Planning (1)					French English	21/5	YES
	Université Toulouse 1 Sciences Sociales							French		YES
	Université Toulouse II – Le Mirail IUP Aménagement et développement territorial (IUP ADT)		MA in Geography and Planning with the specialisation in : Cities Urban areas and territorial dynamics Environment and Landscape							
	Université Paris Ouest Nanterre La Défense Département Géographie et Aménagement (AUDT)		MA in Urban Management and Sustainability of Territories							
	Université de Rennes 2		MA in Urbanisme and Planning							
	Université de Strasbourg Faculté de Géographie et d'Aménagement		MA in Urbanisme and Planning							

Country (# of institutions)	Planning Schools/Departments at Universities & Location	Bachelor /Undergraduate Degree, i.e.1st cycle under Bologna agreement/ (Number of years)	Master /Postgraduate Degree Title, i.e., 2 <sup>nd</sup> cycle under Bologna agreement)/ (Number of years)	Other, e.g. Planning as specialisation in a programme, or foundation programme (Number of years)	Doctoral (Number of years)	Number of graduate s 2010ª	Total number of student enrolled 2010 <sup>b</sup>	Language of provision	Number of academic staff ft /pt	AESOP member
	École Nationale des Ponts-et- Chaussées ParisTech Department of Cities, Environment and Transports		MSc in Planning and Management of Urban Works							
	Technical University Dortmund Faculty of Spatial Planning	BA Raumplanung (4)	MA Raumplanung (1) MA in Spatial Planning in Europe (1, to start in 2009/10, in English) SPRING – International Joint MSc in Spatial Planning for Regions in Growing Economies (2, including 1 year abroad, in English and targeted towards foreign nationals)		YES			German, English	55	YES
Une (	Technical University Kaiserslautern	BSc Spatial Planning – Raumplanung (3)	MSc in City and Regional Development (from 2010/11 onward) MSc in Environmental Planning and Law (from 2010/11 onward) MSc European and Regional Development requires a BSc in Planning (1,5)					German		YES
Germany (10)	Technical University Berlin	BA in Urban and Regional Planning (3)	MSc in Urban and Regional Planning (2)		YES			German	17	YES
	Brandenburg Technical University (BTU) Cottbus	BA in Town and Regional Planning (3) BA in Environmental and Resource Management (3, in English)	MA in Town and Regional Planning (2) MA in Environmental and Resource Management (3, in English)					German English		NO
	HafenCity University Hamburg	BSc in Urban Planning (3)	Master in Urban Planning and Development (2)					German		YES
	University Kassel	BSc City and Regional Planning (3) BSc landscape planning (3)	MA in Planning (specialisations in either Urban Design or City and Regional Development (2) MA in Landscape Planning		YES			German	50	YES

Universities & Location	Bachelor /Undergraduate Degree, i.e.1st cycle under Bologna agreement/ (Number of years)	Master /Postgraduate Degree Title, i.e., 2 <sup>nd</sup> cycle under Bologna agreement)/ (Number of years)	Other, e.g. Planning as specialisation in a programme, or foundation programme (Number of years)	Doctoral (Number of years)	Number of graduate s 2010ª	number of student enrolled 2010 <sup>ь</sup>	Language of provision	Number of academic staff ft /pt	AESOP member
University of Applied Sciences, Erfurt	BSc Urban and Spatial Planning (3)	MSc Urban and Spatial Planning (2)					German		YES
Bauhaus University Weimar Faculty of Architecture	BSc Urban Design (4)	MSc Integrated International Urban Studies (2), MSc European Urbanism (2)		YES			German		YES
University of Applied Sciences, Nürtingen-Geislingen Institute for Urban and Regional Development	BSc (B.Eng) in Urban Planning (3.5 includes 6 months of placement/practical experience)						German		NO
University of Applied Sciences Stuttgart Faculty of Architecture and Design		MA in Urban Planning (2 ft, 3 pt)					German, English	4 / 10	YES
University of Thessaly in Volos School of Engineering, Department of Planning and Regional Development	Diploma in Planning (5, UG)	MSc in Urban and Regional Planning MSc in Spatial Analysis and Environmental Management MSc in European Regional Development Studies (in English) "Dynamique Territoriale et Aménagement Rural" (DYNTAR) – Master Européen Professionnel Franco-Héllenique (in French)					Greek English French	Ca 25	YES
Aristotle University of Thessaloniki School of Engineering, Department of Rural and Surveying		Prospective" (PODEPRO) - Master Européen Franco-Héllenique MSc in Geo-informatics MSc in Techniques and Methods for Spatial Analysis, Planning and					Greek		YES
	University of Applied Sciences, Erfurt Bauhaus University Weimar Faculty of Architecture University of Applied Sciences, Nürtingen-Geislingen Institute for Urban and Regional Development University of Applied Sciences Stuttgart Faculty of Architecture and Design University of Thessaly in Volos School of Engineering, Department of Planning and Regional Development Aristotle University of Thessaloniki School of Engineering,	University of Applied Sciences, Erfurt       BSc Urban and Spatial Planning (3)         Bauhaus University Weimar Faculty of Architecture       BSc Urban Design (4)         University of Applied Sciences, Nürtingen-Geislingen Institute for Urban and Regional Development       BSc (B.Eng) in Urban Planning (3.5 includes 6 months of placement/practical experience)         University of Applied Sciences Stuttgart       BSc (d. Eng) in Urban Planning (3.5 includes 6 months of placement/practical experience)         University of Applied Sciences Stuttgart       Diploma in Planning (5, UG)         Aristotle University of Thessaloniki School of Engineering, Department of Planning and Regional Development       Diploma in Planning (5, UG)         Aristotle University of Thessaloniki School of Engineering, Department of Rural and Surveying       Diploma in Planning (5, UG)	(Number of years)         (Number of years)           University of Applied Sciences, Erfurt         BSc Urban and Spatial Planning (3)         MSc Urban and Spatial Planning           Bauhaus University Weimar Faculty of Architecture         BSc Urban Design (4)         MSc Integrated International Urban Studies (2), MSc European Urbanism (2)           University of Applied Sciences, Nürtingen-Geislingen Institute for Urban and Regional Development         BSc (B.Eng) in Urban Planning (3.5 includes 6 months of placement/practical experience)         MA in Urban Planning (2 ft, 3 pt)           University of Applied Sciences Stuttgart Faculty of Architecture and Design         Diploma in Planning (5, UG)         MSc in Urban and Regional Development           University of Thessaly in Volos School of Engineering, Department of Planning and Regional Development         Diploma in Planning (5, UG)         MSc in Urban and Regional Development Studies (in English) "Dynamique Territoriale et Aménagement Rural" (DYNTAR) – Master Europeen Professionnel Franco-Héllenique (in French) "Population, Développement, Prospective" (PODEPRO) - Master Europeen Franco-Héllenique           Aristotte University of Thessaloniki School of Engineering, Department of Rural and Surveying         MSc in Techniques and Methods for Spatial Analysis, Planning and	Constant         (Number of years)         (Number of years)         (Number of years)           University of Applied Sciences, Erfurt         BSc Urban and Spatial Planning (3)         MSc Urban and Spatial Planning (3)         MSc Urban and Spatial Planning (2)         Image: Comparison of the state of th	Couldwin         (Number of years)         (Number of years)         (Number of years)         (Number of years)           University of Applied Sciences, Effurt         BSc Urban and Spatial Planning (3)         MSc Urban and Spatial Planning (2)         YES           Bauhaus University Weimar Faculty of Architecture         BSc Urban Design (4)         MSc Integrated International Urban Studies (2), MSc European Urbanism (2)         YES           University of Applied Sciences, Nutringen-Geislingen Institute for Urban and Regional Development         BSc (B.Eng) in Urban Planning (3.5 includes 6 months of placement/practical experience)         MA in Urban Planning (2 ft, 3 pt)         Image: Comparison of the placement/practical experience)           University of Applied Sciences Stuttgart Faculty of Architecture and Design         Diploma in Planning (5, UG)         MSc in Urban and Regional Planning (Sc in Spatial Analysis and Environmental Management MSc in European Regional Development         Image Planning (Sc in Coptan Analysis and Environmental Management MSc in European Regional Development Studies (in English) "Dynamique Territorial et Aménagement Rural" (DYNTAR) – Master Européen Franco-Héllenique         Image Planning MSc in Techniques         Image Planning MSc in Techniques         Image Planning English)           "Dynamique Territorial et Aménagement Rural" (DYNTAR) – Master Européen Franco-Héllenique         Image Planning MSc in Techniques         Image Planning Européen Franco-Héllenique         Image Planning MSc in Techniques	Constant         (Number of years)         (Number of years)         (Number of years)         (Number of years)           University of Applied Sciences, Erfurt         BSc Urban and Spatial Planning (3)         MSc Urban and Spatial Planning (3)         MSc Urban and Spatial Planning (3)         MSc Urban and Spatial Planning (3)         YES           Bauhaus University Weimar Faculty of Architecture         BSc Urban Design (4)         MSc Integrated International Urban Studies (2), MSc European Urbanism (2)         YES           University of Applied Sciences, Nixitingen-Geisingen Institute for Urban and Regional Development         BSc (8.Eng) in Urban Planning (3.5 in (Urban Planning (3.5 in (Urban and Regional Development)         MA in Urban Planning (2 ft, 3 pt)         Image: Comparison of placement/practical experience)           University of Thessaly in Volos School of Engineering, Department of Planning and Regional Development         Diploma in Planning (5, UG)         MSc in Urban and Regional Development, MSc in Spatial Analysis and Environmental Management, MSc in European Regional Development, Prospective (PODEPRO) - Master Européen Franco-Hellenique (in French), "Population, Développement, Prospective (PODEPRO) - Master Européen Franco-Hellenique         Image: Européen Franco-Hellenique MSc in Techniques and Methods for Spatial Analysis, Planning and         MSc in Techniques and Methods for Spatial Analysis, Planning and         Image: Européen Franco-Hellenique	Location         (Number of years)         (Number of years)         (Number of years)         years)         2010           University of Applied Sciences, Erfurt         BSc Urban and Spatial Planning (3)         MSc Urban and Spatial Planning (3)         MSc Urban and Spatial Planning (2)         MSc Urban and Spatial Planning (2)         YES         Image: Comparison of the state of	Location       (Number of years)       (Number of years)       Variable of years)       S 2010       2010b       Provision         University of Applied Sciences, Enfurt       BSc Urban and Spatial Planning (3)       MSc Urban and Spatial Planning (2)       MSc Integrated International Urban Studies (2), MSc European Urbanism (2)       YES       Cerman         University of Applied Sciences, Faculty of Architecture       BSc Urban Design (4)       MSc Integrated International Urban Studies (2), MSc European Urbanism (2)       YES       Cerman         University of Applied Sciences, Nutringen, Cesingingen Institute for Urban and Regional Development       BSc (B, Eng) in Urban Planning (3,5 incides 6 months of placement/practical expenseoc)       MA in Urban Planning (2 ft, 3 pt)       Cerman, English         University of Applied Sciences Struttar       Diploma in Planning (5, UG)       MSc in Urban and Regional Development       MSc in Urban and Regional Environment Studies (English) Pracement Studies (English) Provement       Sinci Urban and Regional Environment Studies (English) Provement       Cerman, English         University of Thessaly in Volos School of Engineering, Department of Planning and Regional Development       Diploma in Planning (5, UG)       MSc in Urban and Regional Environment Studies (English) "Dynamique Territoriale et Anteragement Rural (ONTAR) – Master Europeen Regional Development       Since Internon-Hileningue School of Engineering, Department of Planning and Regional Development       Since Internon-Hileningue School of Engineering, Department of Planning and Scin Techniques and Method	Location         (Number of years)         (Number of years)         (Number of years)         years)         2010         20100         Provision         Attract           University of Applied Sciences, Erfutt         BSc Urban and Spatial Planning (3)         MSc Urban and Spatial Planning (3)         VES         Qerman         Cerman           University of Applied Sciences, Nutridge-Green-Geslingan Institute for Urban and Regional Development         SS (B, Eng) in Urban Planning (3) includes 6 months of placement/practical experience)         MA in Urban Planning (2 ft, 3 pt)         VES         Qerman         Cerman, English         4 / 10           University of Applied Sciences Studgat         Diploma in Planning (5, UG)         MSc In Urban and Regional Planning (3) includes 6 months of placement/practical experience)         MA in Urban Planning (2 ft, 3 pt)         Cerman, English         4 / 10           University of Applied Sciences Studgat         Diploma in Planning (5, UG)         MSc In Urban and Regional Planning MSc n Studge Regional Development         Sci networks and Environmental Analysis and Environmental Management MSc In Europeen Processonal Parachelinet Procesponent. Proparative of Theresalouniki School of Engineering.         Cerek         English French         Sci Revelopment Analysis Analysis and Environmental Management MSc In Technogene Processonal Proparative of Theresalon Divelopmenent. Prospectiver (PODEFRO). Master Européen Financ

Country (# of institutions)	Planning Schools/Departments at Universities & Location	Bachelor /Undergraduate Degree, i.e.1st cycle under Bologna agreement/ (Number of years)	Master /Postgraduate Degree Title, i.e., 2 <sup>nd</sup> cycle under Bologna agreement)/ (Number of years)	Other, e.g. Planning as specialisation in a programme, or foundation programme (Number of years)	Doctoral (Number of years)	Number of graduate s 2010ª	Total number of student enrolled 2010 <sup>b</sup>	Language of provision	Number of academic staff ft /pt	AESOP member
	University of Patras School of Engineering, Department of Architecture		MSc in Urban Planning and Transformation (under consideration)	Postgraduate MSc in Urban Design				Greek		YES
	University of the Aegean in Mytilini, Lesbos Department of Geography		MSc in Geography and Applied Geo- informatics with specialization in: Human Geography and Spatial Analysis; Environmental and Risk Management.					Greek		NO
	Harokopeion University in Athens Department of Geography		MA in Applied Geography and Area Managements with specialisations in: Natural and Human Disaster Management; European Spatial Development and Management; Analysis and Management of Geographical Data.					Greek		NO
	National Technical University of Athens, Department of Architecture or Department of Rural and Surveying Engineering		MSc in Architectural Design – Space – Culture MSc of Urban and Regional Planning MSc in Environment and Development MSc in Geo-informatics					Greek		NO
Hungary (1)	Janus Pannonius University, Baranya*							Hungarian		NO
Republic of Ireland (3)	University College Dublin	BA in Geography, Planning and Environmental Policy (3)	MA of Regional and Urban Planning (2) MSc in Planning Policy and Practice (1)		YES	ca. 40	108	English		YES
Ref	University College Cork		MA in Planning and Sustainable Development (2)					English		YES

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	Dublin Institute of Technology Department of Environment and Planning	BSc Planning and Environmental Management (4)	MSc in Sustainable Development (1) MSc in Regional and Local Development (1) MSc in Spatial Planning (2,5 pt) MSc in Planning and Development (2 pt)					English	13	NO
	Politecnico die Milano Department of Architecture and Planning	BSc in Urban Planning (3)	MSc in Urban Policy and Design (2)		YES			Italian	65	YES
	University and Polytechnic of Torino Interuniversity Department of Regional and Urban Studies and Planning (DIST)	BSc in Territorial, Urban and Environmental Planning (3)	MSc in Territorial, Urban and Environmental Planning (2 ft, 3,5 pt)		YES (3) Environment and territory: planning and local development	ca 20/20		Italian	36/45	YES
	Politecnico di Bari, Department of Architecture and Urban Planning							Italian		YES
ltaly (13)	University of Ferrara Centre for Urban, Regional and Environmental Research, CRUTA							Italian		NO
(1 It:	University "G.d'Annunzio" Chieti Department of Environment, Networks and Territory							Italian		YES
	University Institute of Architecture in Venezia Faculty of Urban and Regional Planning							Italian	25	YES
	University "Federico II" Napoli Department of City Planning							Italian		YES
	University of Palermo Department of City and Region							Italian		YES

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	University of Genoa School of Architecture Polis Department							Italian		YES
	University of Firenze Institute of Urban and Regional Planning	BSc in Urban, Regional and Environmental Planning (3)	MSc in Urban, Regional and Environmental Planning (2)	MSc in Landscape Architecture (2) Award in Landscape Design (2) Award in Mediterranean Cities Sustainable Architecture Design (1) Award in Water Front Urban Design (1) Award in Cultural and Environmental Resources Enhancement and Management (1)	YES (3) in Urban and Regio nal Design and Planning in Landscape Design			Italian	44/2	YES
	University of Napoli Department of Planning and Regional Science							Italian		YES
	University of Catania Faculty or Architecture	BSc Building and Environmental Renewal Engineering (3)	Building and Environmental Renewal Engineering (long cycle programme, 5)	BSC Architecture and Building Engineering Sciences with the modules in urban design (3) MSc in Architecture and Building Engineering long cycle programme, 5)	YES (3) Planning for Territory and Environment (Italian and English)			Italian	7	YES
Kosovo (1)++	University of Pristhina		MA in Urban Planning and Management (2)						9	YES
Latvia (1)	University of Latvia in Riga Faculty of Architecture and Urban Planning									YES
Lithuania (1)	Vilnius Technical University*									NO

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Malta (1)	University of Malta Faculty for the Built Environment									YES
Netherlands (11)	International Institute for Geo- Information Science and Earth Observation (ITC) Urban and Regional Planning and Geo-Information Management		MSc in Geoinformation Science and Earth Observation (1.5) with specialisation in: Urban Planning and Management; Governance and Spatial Information Management; Land Administration; Natural Resource Management; Water Resources and Environmental Management; Applied Earth Science; Geo-informatics (all in English). MSc in Geoinformation Science and Earth Observation (1) with specialisation in: Natural Resource Management; Geo-informatics (all in English).	Postgraduate Award (9 months) in: Urban Planning and Management; Land Administration; Natural Resource Management; Water resources and Environmental Management; Applied Earth Science; Geo-informatics (all in English).				Dutch, English	27	YES
	University of Utrecht Department of Innovation and Environmental Studies	BA of Environmental Studies (3)	MA in Sustainable Development (track: Environmental Planning and Management, 3)					Dutch	5	YES
	Department Human Geography and Planning	BA in Human Geography/Urban and Regional planning (3)	MA in Urban and Regional Planning (1) Research Master in Human Geography and Urban and Regional Planning (2) In English					Dutch, English	5,5	YES

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	Delft University of Technology Faculty of Architecture, Section of Urbanism	BA in Architecture (3)	MA in Architecture, Urbanism and Building Sciences (2) European PG Master in Urbanism (EMU) Joint Master with UPC Barcelona, KU Leuven and Universita IUAV di Venezia, (2) (all in English)					Dutch, English	47 / 27	YES
	OTB Research Institute for Housing, Urban and Mobility Studies			Only PhD and research				Dutch	40 / 40	YES
	Wageningen University Land Use Planning Chair	BSc Landscape Architecture and Spatial Planning (3) Dutch/English	MSc Landscape Architecture and Spatial Planning (2) In English		YES (4)	9/9		Dutch, English	10 / 12	YES
	University of Groningen Faculty of Spatial Sciences, Department of Urban and Regional Planning							Dutch		YES
	Radboud University Nijmegen Department of Spatial Planning, Nijmegen School of Management	BSc Spatial Planning (3)	MSc in Spatial Planning (1) In Dutch and English					Dutch English	13	YES
	University of Amsterdam Amsterdam Institute for Social Science Research							Dutch		YES
	University of Twente in Enschede Faculty of Geo-Information Science and Earth Observation (ITC)							Dutch		YES
	Eindhoven University of Technology Department of Architecture and Planning		MSc in Planning (5)	Planning is a specialisation in the UG Architecture, Building and Planning Curriculum				Dutch	20	YES
Norw ay (7)	Volda University College Department of Planning and Administration	Bachelor in Planning and Administration (3)	Master in Public Planning (2)					Norwegian	9	YES

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	University of Tromsø Department of Sociology, Political Science & Community Planning	BA in Planning and Culture (3 ft/ 4 pt)	Master in Planning and Culture (2 ft / 3 pt) Norwegian/English	MA in Place Development	YES (3 ft / 5 pt) In Norwegian and in English	15		Norwegian	7/1	YES
	Oslo School of Architecture and Design Institute of Urbanism and Landscape		Master of Arts in Urbanism (2)	Not a bachelor degree but a professional degree for Civil Architect (Architecture and Spatial Planning (5,5)				Norwegian	10	YES
	Lillehammer College Department of Social Sciences	BA in Planning and Public Administration (3)	MA in Planning and Community Studies					Norwegian	10	YES
	University of Bergen Department of Geography, Faculty of Social Sciences	BA in Social Science / Local and Regional Planning (4)	MA in Geography and Planning (6, long cycle)					Norwegian	18	YES
	Norwegian University of Life Sciences (UMB) in Ås Department of Landscape Architecture and Spatial Planning	BSc in Landscape Construction and Management (3)	MSc in Landscape Architecture (5, long cycle) MSc in Spatial Planning (5, long cycle)					Norwegian	13/8	Yes
	Norwegian University of Science and Technology in Trondheim Faculty of Architecture, Planning and Fine Art Department of Town & Regional Planning		MSc of Urban Ecological Planning (2) Master in Physical Planning (2)	MSc in Architecture (5, long cycle) with specialisations in Urban Design and Planning or Real Estate Development and Management				Norwegian		YES
Poland (40)	Adam Mickiewicz University Poznań Faculty of Geographical and Geological Science	BA in Planning (3)	MA in Spatial Management (2) MA in Spatial Planning (2) MA in Regional Development (2)		YES (4)	na/110	450 / 230	Polish	54	YES + PSA
	Collegium Polonicum in Słubice	BA in Development and Regeneration of Cities, Towns and Rural Areas (3)								
	Branch in Kościan	BA in Spatial Management (3)								

Country (# of institutions)	Planning Schools/Departments at Universities & Location	Bachelor /Undergraduate Degree, i.e.1st cycle under Bologna agreement/ (Number of years)	Master /Postgraduate Degree Title, i.e., 2 <sup>nd</sup> cycle under Bologna agreement)/ (Number of years)	Other, e.g. Planning as specialisation in a programme, or foundation programme (Number of years)	Doctoral (Number of years)	Number of graduate s 2010ª	Total number of student enrolled 2010 <sup>b</sup>	Language of provision	Number of academic staff ft /pt	AESOP member
	Wrocław University of Technology Faculty of Architecture	BSc in Planning (3,5)	MSc in Planning (1,5)	MSc in Architecture, Specialization in Urbanism (1,5) Postgraduate Award in Spatial Planning (1) Postgraduate Award in Landscape Architecture (1)	YES (4)	50 / 90	180 / 180	Polish English	145	YES + PSA
	University of Environmental and Life Sciences in Wrocław, Faculty of Environmental Engineering and Geodesy	BSc in Planning (3,5)	-			60/-	482	Polish	19	NO + PSA
	Cracow University of Economics Faculty of Finance	BA in Strategies in Regional Development (3)	MA in Urban Management (2)					Polish	20 / ca 40	YES + PSA
	University of Warsaw Centre for European Regional and Local Studies	-	MA in Planning (2)					Polish	18	NO + PSA
	Faculty of Geography and Regional Studies	BA in Planning (3)	MA in Planning (2)		YES (4)		admission limit: 80/80		140	+ PSA
	Higher School of Finance and Management in Białystok, Faculty of Spatial Economics	BA in Planning (3) BSc in Planning (3,5)	MA in Planning (2)					Polish	17	NO
	University of Łódź Faculty of Economics and Sociology	BA in Spatial Economy (3)	MA in Spatial Economy (2)			100	215 / 157	Polish		YES + PSA
	Faculty of Management in cooperation with Faculty of Geography								27	+ PSA
	University of Warmia and Mazury in Olsztyn Faculty of Geodesy and Land Management	BSc in Real Estate (3,5) BSc in Spatial Planning and Engineering (3,5)	MSc in Real Estate (1,5) MSc in Spatial and Real Estate Management (1,5 and 2)			180	388/240	Polish		NO + PSA
	Warsaw University of Life Sciences (SGGW)	BSc in Planning (3,5)	MSc in Planning (1,5)					Polish		NO + PSA

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	Poznań University of Economics Faculty of Management	BA in Urban and Regional Development (3) BA in Local Development and Administration (3)	MA in Urban and Regional Development (2) MA in Local Development and Administration (2)					Polish	17	NO + PSA
	Warsaw School of Economics (SGH)							Polish		NO + PSA
	Warsaw University of Technology Faculty of Geodesy and Cartography In cooperation with Faculties of Architecture, Management and Social Sciences and Administration	BSc in Planning (3,5)	MSc in Planning (1,5)		YES (4)			Polish	60	YES + PSA
	Faculty of Architecture			BSc in Architecture and Urban Design (4) MSc in Architecture and Urban Design (2) Postgraduate Award in Spatial Planning (1) Postgraduate Award in Urban Design and Spatial Management (1) Postgraduate Award in Cultural Heritage Protection (1)	YES (4)				140	YES
	Karol Adamiecki University of Economics in Katowice, Faculty of Economics	BA in Local and regional Economy (3) BA in Spatial Planning and Real Estate (3) BA Environmental and Spatial Management (3)	MA in Local and regional Economy (2) MA in Spatial Planning and Real Estate (2) MA Environmental and Spatial Management (2)				YES (4)	Polish	53	NO + PSA
	University of Gdańsk Institut of Geography	BA in Planning (3)	MA in Planning (2)		YES (4)	60 / n.a.	294 / na	Polish	ca 70	NO

Country (# of institutions)	Planning Schools/Departments at Universities & Location	Bachelor /Undergraduate Degree, i.e.1st cycle under Bologna agreement/ (Number of years)	Master /Postgraduate Degree Title, i.e., 2 <sup>nd</sup> cycle under Bologna agreement)/ (Number of years)	Other, e.g. Planning as specialisation in a programme, or foundation programme (Number of years)	Doctoral (Number of years)	Number of graduate s 2010ª	Total number of student enrolled 2010 <sup>b</sup>	Language of provision	Number of academic staff ft /pt	AESOP member
	University of Opole Faculty of Economy	BA in Planning (3) BSc in Planning (3,5, opens in 2012)	-		NO	40 / n.a.		Polish		NO
	Białystok University of Technology Faculty of Civil and Environmental Engineering	BSc in Planning (3,5 opened 2010/2011)	MSc in Planning (1,5 opened in 2011)					Polish		NO
	Western PomeranianTechnical University in Szczecin Faculty of Environment and Agriculture	BSc in Planning (3,5 opened in 2011)			YES (4)			Polish	126	NO + PSA
	University of Life Sciences in Lublin Faculty of Agrobioengineering	BSc in Planning (3,5)							126	NO
	University of Life Sciences in Poznań Faculty of Agriculture and Bioengineering	BA in Planning (3, opens in 2012) BSc in Planning (3,5, opens in 2012)							160	NO + PSA
	Hugo Kołłątaj University of Agriculture in Cracow, Faculty of Environmental Engineering and Geodesy	BSc in Regional Development (3,5)								NO + PSA
	Angelus Silesius College of Applied Sciences in Wałbrzych	BSc in Planning (3,5)								NO
	Collegium Varsoveinse in Warsaw	BSc in Planning (3,5)								NO
	Katowice School of Economics	BA in Planning (3) specialised in								NO
	The John Paul II Catholic University of Lublin	BA in Planning (3)								NO
	Andrzej Frycz-Modrzewski Cracow University Faculty of Economics and Management	BA in Planning (3)								NO
	The International College of Logistics and Transport in Wrocław	BSc in Planning (3,5)								NO
	Carpathian School of Applied Sciences	BA in Planning (3)								NO
	Bogdan Janski Academy in Warsaw	BA in Planning (3)								NO
	in Chelm	BA in Planning (3)								
	in Elbląg	BA in Planning (3)								
Country (# of institutions)	Planning Schools/Departments at Universities & Location	Bachelor /Undergraduate Degree, i.e.1₅t cycle under Bologna agreement/ (Number of years)	Master /Postgraduate Degree Title, i.e., 2 <sup>nd</sup> cycle under Bologna agreement)/ (Number of years)	Other, e.g. Planning as specialisation in a programme, or foundation programme (Number of years)	Doctoral (Number of years)	Number of graduate s 2010ª	Total number of student enrolled 2010 <sup>b</sup>	Language of provision	Number of academic staff ft/pt	AESOP member
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	in Opole	BA in Planning (3)								
	in Zabrze	BA in Planning (3)								
	College of Applied sciences in Lidzbark Warminski	BA in Planning (3)								
	Stanisław Stasic College of Public Administration in Białystok	BA in Planning (3)							36	NO
	Higher School of Business in Gorzow Wielkopolski	BSc in Planning (3)							20	
	Higher School of the Humanities in	BSc in Planning (3,5)					35/-			
	Wrocław	Negative assessment of the SAC in 2011, the course closed.								
	College of Infrastructure and Management in Warsaw	BSc in Planning (4)								
	College of Business Engineering in Słupsk	BSc in Planning (3,5)							34	
	College of Enterprise and Administration in Lublin	BSc in Planning (3,5)								
	College of Business and Social Sciences	BSc in Planning (3,5)								
	College of Business and Regional Development in Raszyn	BSc in planning (3,5)							33	
	Katowice School of Technology	BSc in Planning (4 – PT)								
	Stanislaw Staszic College in Kielce	BSc in Planning (3,5)								
	Gdańsk University of Technology Faculty of Architecture			BSC in Architecture and Urbanism MSc in Architecture and Urbanism Postgraduate Award in Urban	YES			Polish		YES + PSA
				Management (1) Postgraduate Award in Urban and Architectural Regeneration						

Country (# of institutions)	Planning Schools/Departments at Universities & Location	Bachelor /Undergraduate Degree, i.e.1st cycle under Bologna agreement/ (Number of years)	Master /Postgraduate Degree Title, i.e., 2 <sup>nd</sup> cycle under Bologna agreement)/ (Number of years)	Other, e.g. Planning as specialisation in a programme, or foundation programme (Number of years)	Doctoral (Number of years)	Number of graduate s 2010ª	Total number of student enrolled 2010 <sup>b</sup>	Language of provision	Number of academic staff ft /pt	AESOP member
	Technical University of Lisbon Faculty of Architecture			MSc in Architecture with the specialization in Urban Management (long cycle, 5, specialization – 2 yrs) MSc in Architecture with the specialization in Territorial and Urban Planning (long cycle, 5, specialization – 2 yrs)	YES (3)			Portugues e	33	NO
	Faculty of Engineering			MSc in Territorial Engineering (2) MSc in Environmental Engineering (long cycle, 5)	YES (3)			Portugues e	31	
	University of Lisbon Institute of Geography and Spatial Planning	BA in Spatial Planning and Management ()	MA in Urbanism and Territory Management (2) MA in Geographical Information Systems and Modelling Applied to Spatial Planning (2)	MA in Physical Geography and Environmental Management (2)	YES (3 ft / 5 pt)			Portugues e	34/10	YES
Portugal (9)	University New Lisbon Faculty of Social Sciences		Territorial Management - Land Planning and Management (2)					Portugues e		NO
<b>C</b>	University of Aveiro Department of Social and Political Sciences and Spatial Planning		MA in Urban and Regional Planning (2)	BA in Public Administration - Minor in Spatial Planning (4) BA in Environmental Engineering (3) MSc in Environmental Engineering (2)	YES (3-4)			Portugues e	11/1	YES
	University of Azores Department of Agricultural Science			BA in Environmental Management and Engineering (3) MA in Environmental Engineering (2) BA in Nature Management and Conservation (3) MA in Nature Management and Conservation (2) MA in Landscape, Biodiversity and Society (2)	YES (3)			Portugues e	5	YES

Country (# of institutions)	Planning Schools/Departments at Universities & Location	Bachelor /Undergraduate Degree, i.e.1 <sup>st</sup> cycle under Bologna agreement/ (Number of years)	Master /Postgraduate Degree Title, i.e., 2 <sup>nd</sup> cycle under Bologna agreement)/ (Number of years)	Other, e.g. Planning as specialisation in a programme, or foundation programme (Number of years)	Doctoral (Number of years)	Number of graduate s 2010ª	Total number of student enrolled 2010 <sup>b</sup>	Language of provision	Number of academic staff ft /pt	AESOP member
	University of Coimbra			MA in Civil Engineering with the specialization in Urban Planning, Transportation and Highways (long cycle, 5, specialization – 2 yrs) MA in Architecture (long cycle, 5)	YES (3)			Portugues e	35	NO
	University Lusófona of Humanities and Technologies	BA in Urban and Regional Planning (3)	MA in Urban Renewal and Conservation of Architectural Heritage (2) MA in Urban Planning (2)		YES (3)	32/3		Portugues e	9/14	YES
	University of Minho		MA in Urban Engineering (2) In Portuguese and in English	MA in Civil Engineering with the specialization in Planning and Transport Infrastructure (long cycle, 5)	YES (3)		30	Portugues e	15	NO
	University of Porto Faculty of Architecture			MA in Intervention Methodologies in Architectural Heritage (2)	YES (3)			Portugues e	7	YES
	Faculty of Engineering			MA in Civil Engineering with the specialization in Planning (long cycle, 5) BA in Environmental Engineering (3) MA in Environmental Engineering (2)	YES (3)			Portugues e	15	
Roman ia (2)	Technical University of Civil Engineering in Bucharest Department of Urban Engineering and Regional Development	BA in Civil Engineering wih the specialization in Urban Engineering and Regional Development (4)	MSc in Urban and Regional Development (1,5)					Romanian		YES

Country (# of institutions)	Planning Schools/Departments at Universities & Location	Bachelor /Undergraduate Degree, i.e.1≋ cycle under Bologna agreement/ (Number of years)	Master /Postgraduate Degree Title, i.e., 2 <sup>nd</sup> cycle under Bologna agreement)/ (Number of years)	Other, e.g. Planning as specialisation in a programme, or foundation programme (Number of years)	Doctoral (Number of years)	Number of graduate s 2010ª	Total number of student enrolled 2010 <sup>b</sup>	Language of provision	Number of academic staff ft /pt	AESOP member
	Bucharest University of Architecture and Urbanism 'Ion Mincu' Faculty of Urban Planning	BA in Urban Design and Planning (4) BA in Landscape Architecture and Planning (4)	MSc in Urban Design (2) MSc in Urban Management for Competitive Cities (2) MSc in Landscape and Territory (2) MSc in Territorial Planning and Regional Development (2) Some optional courses available in English					Romanian		YES
	Krasnoyarsk State Academy of Architecture and Civil Construction							Russian		NO
	Moscow Institute of Architecture		MA in Urban Planning (2)	BA in Architecture with the specialization in Urban Planning (long cycle, 5 – specialization 1 yr), Specialist Award in Urbanism (1)	YES (3)	250 / 30	1400	Russian	400	NO
Ę	Moscow Land Development University							Russian		NO
deratio	Moscow State University Faculty of Geography							Russian		NO
Russian Federation (8)*	St Petersburg State University Faculty of Geography and Geo- ecology							Russian		
Rus	St Petersburg State University of Architecture and Civil Engineering Faculty of Architecture							Russian		NO
	St Petersburg State University of Engineering and Economics Faculty of State and Municipal Administration							Russian		NO
	Ural State Academy of Arts and Architecture Institute of Urbanism							Russian		NO
Serbia (1)	University of Belgrade Faculty of Geography Department of Spatial Planning	BA in Spatial Planning (3)	MA of Spatial Planning (2)		YES (3) In Serbian and English			Serbian	14	YES

Country (# of institutions)	Planning Schools/Departments at Universities & Location	Bachelor /Undergraduate Degree, i.e.1st cycle under Bologna agreement/ (Number of years)	Master /Postgraduate Degree Title, i.e., 2 <sup>nd</sup> cycle under Bologna agreement)/ (Number of years)	Other, e.g. Planning as specialisation in a programme, or foundation programme (Number of years)	Doctoral (Number of years)	Number of graduate s 2010ª	Total number of student enrolled 2010 <sup>b</sup>	Language of provision	Number of academic staff ft/pt	AESOP member
Slovakia (1)	Slovak Institute of Technology in Bratislava Faculty of Architecture	BSc in Architecture and Urbanism (4) BSc in Spatial Planning and Management (3) BSc in Landscape Architecture and Landscape Planning (3) In English and Slovak	MSc in Architecture and Urbanism (2) MSc in Spatial Planning and Management (2) MSc in Landscape Architecture and Landscape Planning (2) In English, Slovak and German		YES (3)			English, Slovak, German	120	YES
Slovenia (1)	University of Ljubljana Faculty of Civil and Geodetic Engineering Department of Town and Regional Planning									Yes
_	University of Las Palmas de Gran Canaria Faculty of Architecture		MSc in Urban and Landscape planning (2)	BSc in Architecture (5)				Spanish	23	YES
Spain (3)	Autonomous University of Barcelona	BA in Geography and Land Management (4)						Catalonian Spanish		
05	Technical University of Madrid Urban & Regional Planning Department		MSc in Urban Planning (1) MSc in Urban Studies (1)			15 18		Spanish	12/31	YES
	Chalmers University of Technology School of Architecture							Swedish		YES
en	Blekinge Institute of Technology School of Planning and Media Design Department of Spatial Planning	BSc in Spatial Planning (3)	MSc in Spatial Planning (2) MSc in Spatial Planning Urban Design in China and Europe (2 in English)					Swedish	11	YES
Sweden (6)	KTH – Royal Institute of Technology Urban Planning and Environment Department	BA in Urban Planning (4)	MSc in Urban Planning and Design (2) In English		YES (4) Planning and Decision Analysis In English			Swedish English	30/10	YES
	Lulea University of Technology Department of Civil, Environmental and Natural Resources Engineering			MSc in Climate Sensitive Urban Planning and Building (2)	Yes			Swedish	4	YES

Country (# of institutions)	Planning Schools/Departments at Universities & Location	Bachelor /Undergraduate Degree, i.e.1st cycle under Bologna agreement/ (Number of years)	Master /Postgraduate Degree Title, i.e., 2 <sup>nd</sup> cycle under Bologna agreement)/ (Number of years)	Other, e.g. Planning as specialisation in a programme, or foundation programme (Number of years)	Doctoral (Number of years)	Number of graduate s 2010ª	Total number of student enrolled 2010 <sup>,</sup>	Language of provision	Number of academic staff ft /pt	AESOP member
	Swedish University of Agricultural Science, Department of Urban and Rural Development	Undergraduate programme is leading to a MA in Landscape Planning (no Bachelor diploma awarded) Licentiate in Landscape Planning, Landscape Architecture, Landscape Architecture Design or Environmental communication (2)	MA in Landscape Planning (5 )					Swedish	27	YES
	Stockholm University Department of Human Geography School of Planning	BA in Urban and Regional Planning (3)	MA in Human Geography (2) MA in Urban and Regional Planning (2) MA in Globalization, Environment and Social Change (2)	BA in Human Geography with Intelligence Analysis for Policy and Business (3)						
	Swedish University of Agricultural Sciences, Department of Urban and Rural Development		MA in Rural Development (2) MA in Sustainable Development (2)					Swedish		YES
	University of Applied Science of Eastern Switzerland Rapperswil	BSc in Spatial Planning (3)	MSc in Public Planning (1.5)	MAS in Spatial Development	NO	34	ca 110	German	25	YES
Switzerland (7)	The Swiss Federal Institute of Technology (ETH) in Zürich	BSc in Geomatic Engineering and Planning (3)	MSc in Geomatics and Planning (3 + 1.5) MSc in Spatial Development and Infrastructure Systems (2) MSc in Advanced Studies in Spatial Planning (2 years)	Certificate in Advanced Studies (ETH) in Spatial Planning (6 months ft, pt also available)) Various CPD programmes	YES (3)40	44	Ca 245 + 25 Phd	German, German and English at Masters level	30	YES
Switz (	University of Geneva			Certificate in Sustainable Urbanism (2 semesters) MAS in Ecourbanism, Urban Sustainability and Governance	YES (3- 5) <sup>41</sup>	25	20	French	30 teaching staff	NO
	HES-SO University of Applied Sciences of Western Switzerland, Lausanne		MSc (HES-SO) in Engineering and Territorial Development				33	French		NO

<sup>&</sup>lt;sup>40</sup> International PhD programme Research Lab Space 'Perspectives of Spatial Development in European Metropolitan Regions'
<sup>41</sup> PhD programme for whole French speaking Switzerland in Geography including Spatial Planning and Territorial Development

Country (# of institutions)	Planning Schools/Departments at Universities & Location	Bachelor /Undergraduate Degree, i.e.1st cycle under Bologna agreement/ (Number of years)	Master /Postgraduate Degree Title, i.e., 2 <sup>nd</sup> cycle under Bologna agreement)/ (Number of years)	Other, e.g. Planning as specialisation in a programme, or foundation programme (Number of years)	Doctoral (Number of years)	Number of graduate s 2010ª	Total number of student enrolled 2010 <sup>b</sup>	Language of provision	Number of academic staff ft/pt	AESOP member
	University of Lausanne			MAS in Ecourbanism, Urban Sustainability and Governance. Diplomas and certificates in Environmental Strategy and Economics	YES 'Ville, Urbanism e and Mobilité'			French with some modules taught in English		NO
	University of Neufchâtel Lucerne University of Applied			MAS in Ecourbanism, Urban Sustainability and Governance MAS in Community, City and	French German					
The former Yugoslav Republic of Macedonia (1)	Science University St. Cyril and Methody, Faculty of Architecture			Regional Development						YES
	Yildiz Technical University in Istanbul Faculty of Architecture, Department of City and Regional Planning	BSc in Urban and Regional Planning (4)						Turkish	39	YES
Turkey (13)	Middle East Technical University, Ankara Faculty of Architecture, Department of City and Regional Planning	BSc in City Planning – BCP, (4) In English	MSc in Regional Planning – MCP (2) MSc in Urban Design – MCP (2) All in English		YES (3)	61 / 20		English	18 / 28	YES
	Dokuz Eylül University in Izmir Department of City and Regional Planning	BA in City and Regional Planning – BCP (4+1)	MSc in City Planning (2) MSc in Urban Design (2) All in English					Turkish, English	27	YES

Country (# of institutions)	Planning Schools/Departments at Universities & Location	Bachelor /Undergraduate Degree, i.e.1st cycle under Bologna agreement/ (Number of years)	Master /Postgraduate Degree Title, i.e., 2 <sup>nd</sup> cycle under Bologna agreement)/ (Number of years)	Other, e.g. Planning as specialisation in a programme, or foundation programme (Number of years)	Doctoral (Number of years)	Number of graduate s 2010ª	Total number of student enrolled 2010 <sup>b</sup>	Language of provision	Number of academic staff ft /pt	AESOP member
	Istanbul Technical University, Faculty of Architecture Department of Urban and Regional Planning	BSc in Urban and Regional Planning (4) (30% of all courses taught in English, remainder in Turkish)	MSc in Urban Planning (1,5) MSc in Regional Planning (1,5) Interdisciplinary MSc in Urban Design (1,5) 50% of all courses taught in English, remainder in Turkish					Turkish, English	23	YES
	Selçuk Üniversitesi Faculty of Engineering and Architecture	BSc in Urban and Regional Planning (4)								NO
	Süleyman Demirel Üniversitesi Faculty of Engineering and Architecture	BSc in Urban and Regional Planning (4)								NO
	Mimar Sinan Güzel Sanatlar (Fine Arts) Üniversitesi Faculty of Architecture	BSc in Urban and Regional Planning (4)								NO
	Karadeniz Teknik Üniversitesi Faculty of Architecture	BSc in Urban and Regional Planning (4)								NO
	Izmir Institute of High Technology Faculty of Architecture	BSc in Urban and Regional Planning (4)								NO
	Gazi Üniversitesi Faculty of Architecture	BSc in Urban and Regional Planning (4)								NO
	Erciyes Üniversitesi Faculty of Architecture	BSc in Urban and Regional Planning (4)								NO
	Bozok Üniversitesi Faculty of Engineering and Architecture	BSc in Urban and Regional Planning (4)								NO
	Gebze Institute of High Technology Faculty of Architecture		MSc in Urban and Regional Planning (2) In English							
Ukraine (1)	Kharkiv Engineering Institute*									NO

Country (# of institutions)	Planning Schools/Departments at Universities & Location	Bachelor /Undergraduate Degree, i.e.1 <sup>st</sup> cycle under Bologna agreement/ (Number of years)	Master /Postgraduate Degree Title, i.e., 2 <sup>nd</sup> cycle under Bologna agreement)/ (Number of years)	Other, e.g. Planning as specialisation in a programme, or foundation programme (Number of years)	Doctoral (Number of years)	Number of graduate s 2010ª	Total number of student enrolled 2010 <sup>b</sup>	Language of provision	Number of academic staff ft /pt	AESOP member
om (incl. England, Scotland, Wales t Northern Ireland (29)	Anglia Ruskin University, Department of the Built Environment, Chelmsford, England		MSc in Town Planning (1 ft, 2 pt) combined	Short courses for continued professional development of practitioners on Low Carbon and Climate change, Waste Planning and Waste Strategy and others. 1-year graduate diploma in Urban Design and Place Shaping delivered through blended learning (classroom, distance and workplace learning).				English	11	NO
United Kingdom (incl. & Northe	London School of Economics, London, England		MSc in Regional and Urban Planning Studies (1) Msc City Design and Social Science (1) None RTPI accredited		YES City or Regional and Urban Studies			English	10	YES
United	Liverpool John Moores University School of the Built Environment, Liverpool, England		MSc in Environmental Planning (1 ft, 2 pt), combined					English	10	NO

Country (# of institutions)	Planning Schools/Departments at Universities & Location	Bachelor /Undergraduate Degree, i.e.1st cycle under Bologna agreement/ (Number of years)	Master /Postgraduate Degree Title, i.e., 2 <sup>nd</sup> cycle under Bologna agreement)/ (Number of years)	Other, e.g. Planning as specialisation in a programme, or foundation programme (Number of years)	Doctoral (Number of years)	Number of graduate s 2010ª	Total number of student enrolled 2010 <sup>b</sup>	Language of provision	Number of academic staff ft /pt	AESOP member
	Oxford Brookes University, Department of Planning, School of the Built Environment, Oxford, England	BA (Hons) in City and Regional Planning with Diploma in Planning or MPlan (4) combined BA (Hons) in Planning and Property Development (2012 entry)	MSc in Spatial Planning (1 ft, 2 pt) combined Diploma in Spatial Planning (1 ft, 2 pt) spatial MSc in Environmental Assessment and Management (1 ft, 2 pt) specialist MSc in Historic Conservation (1 ft, 2 pt) - specialist MSc in Tourism, Environment and Development (1 ft, 2 pt) Specialist MSc in Urban Planning: Developing & Transitional Regions (1 ft, 2 pt) specialist MA in Urban Design (1 ft, 2 pt) specialist MSc in Transport Planning (1 ft, 2 pt) specialist MSc in Climate Change for the Built Environment (1 ft, 2 pt) specialist	Foundation in Built Environment (1 ft, 2 pt)	YES <sup>42</sup>	350	450	English	30	YES
	London South Bank University, Department of Urban, Environment and Leisure Studies, London, England	BA (Hons) in Urban and Environmental Planning with Diploma in Town Planning (4) combined	MA in Planning Policy and Practice (1 ft, 2 pt), combined MA in Urban Planning Design (1 ft, 2 pt), specialist MSc in Cities and Local Development, (1 ft, 2 pt) specialist Partner in Joint Distance Learning MA in Town and Country Planning, 3.25 years for graduates with first degree, 7.25 years for non- graduates, combined	Foundation degree FdA in Urban Regeneration & Community Development (2, non-RTPI) BA Sustainable Communities (3 ft, 6 pt, non- RTPI) BTEC Housing Studies (2 pt, non RTPI) BA Housing Studies (3 ft, 5 pt, non-RTPI)				English	20	YES

<sup>&</sup>lt;sup>42</sup> Mphil/Phd (3 ft, 4 pt); Mres in Planning (1 ft, 2 pt); Mres in Urban Design (1 ft, 2 pt); MA by Research (1 ft, 2 pt)

Country (# of institutions)	Planning Schools/Departments at Universities & Location	Bachelor /Undergraduate Degree, i.e.1st cycle under Bologna agreement/ (Number of years)	Master /Postgraduate Degree Title, i.e., 2 <sup>nd</sup> cycle under Bologna agreement)/ (Number of years)	Other, e.g. Planning as specialisation in a programme, or foundation programme (Number of years)	Doctoral (Number of years)	Number of graduate s 2010ª	Total number of student enrolled 2010 <sup>6</sup>	Language of provision	Number of academic staff ft /pt	AESOP member
	University College London Bartlett School of Planning London, England	BSc (Hons) in Urban Planning, Design and Management with Diploma/MSc Town and Country Planning or Diploma/MSc Urban Regeneration or Diploma/MSc Sustainable Urbanism or Diploma/MSc International Real Estate and Planning (4) combined	MSc in Spatial Planning (1 ft, or 2-5 pt) combined MSc International Planning (1 ft, or 2- 5 pt) combined MSc International Real Estate and Planning (1 ft, or 2-5 pt) specialist MSc Urban Regeneration (1 ft, or 2-5 pt) specialist MSc Sustainable Urbanism (1 ft, or 2- 5 pt) specialist MSc Town and Country Planning (1 ft, or 2-5 pt) specialist MSc Mega-Infrastructure Planning, Appraisal and Delivery (1 ft, or 2-5 pt) specialist		YES (3)	170	250	English	22	YES
	Birmingham City University (formerly University of Central England in Birmingham), Birmingham, England	BSc (Hons) in Planning and Development (3 ft, pt mode available)	MA Spatial Planning (1 ft, 2 pt) spatial Diploma in Spatial Planning (1 ft, 2 pt) spatial MA in Urban Design (1 ft, 2 pt) specialist MSc in Property Development (1 ft, 2 pt) specialist MA in Housing (1 ft, 2 pt) specialist					English	12	YES
	University of Liverpool Department of Civic Design Liverpool, England	MA in Planning (MPlan) (4) combined	Master of Civic Design – MCD (1 ft, 2 pt) combined MSc Marine Planning and Management (1 ft, 2 pt), awaiting accreditation of RTPI MA Town and Regional Planning MA Environmental Management and Planning MSc Urban Regeneration and Management		YES			English	9.5	YES

Country (# of institutions)	Planning Schools/Departments at Universities & Location	Bachelor /Undergraduate Degree, i.e.1st cycle under Bologna agreement/ (Number of years)	Master /Postgraduate Degree Title, i.e., 2 <sup>nd</sup> cycle under Bologna agreement)/ (Number of years)	Other, e.g. Planning as specialisation in a programme, or foundation programme (Number of years)	Doctoral (Number of years)	Number of graduate s 2010ª	Total number of student enrolled 2010 <sup>b</sup>	Language of provision	Number of academic staff ft /pt	AESOP member
	University of Manchester, Planning and Landscape, School of Environment and Development, Manchester, England	MA in Town and Country Planning – MTCP (4) combined BA (Hons) Town and Country Planning – BA TCP (3) spatial	MA Planning – MPlan (1 ft, 2 pt) combined MA Urban Regeneration and Development – MAURD (1 ft, 2 pt) specialist MA Environmental Impact Assessment and Management – MAEIAM (1 ft, 2 pt) specialist MSc Global Urban Development Planning – GUDP (1 ft, 2 pt) specialist		YES			English	14 (in planning)	YES
	Newcastle University, School of Architecture, Planning & Landscape, Newcastle-upon-Tyne, England	BA in Town Planning with Certificate in Planning and Diploma in Planning and Regeneration or Diploma in Environmental Planning or Diploma in European Spatial Planning or Diploma in Planning and Urban Design (5) combined, this is a programme where the 4 <sup>th</sup> year is spend in paid employment BA Geography and Planning, non- RTPI accredited	MSc in Town Planning (1 ft, 2 pt) combined Diploma in Spatial Planning (1 ft, 2 pt) spatial MA Planning and Environment Research (1 ft, 2 pt) MSc Planning for Sustainability and Climate Change (1) combined MSc Planning for Developing Countries (1 ft, 2 pt) combined MA Urban Design (1 ft, 2 pt) specialist		YES		239 / 57	English	17	YES
	University of Reading, Centre of Planning Studies (CoPS), Department of Real Estate and Planning, Reading, England	BSc in Land Management with MSc/Diploma in Urban Planning and Development (4) combined	MSc in Development Planning (1 ft, pt also available), combined MSc in Development Planning and Research (1 ft, pt also available), combined		YES			English	10	YES
	The University of Sheffield, Department of Town and Regional Planning, Sheffield, England	MPlan in Urban Studies and Planning (4) combined	MA in Town and Regional Planning (1) combined MArch in Architecture and Town and Regional Planning (preceded by BA in Architecture) (5+1 in practice) combined MA International Development and Planning (1 ft, 2 pt) combined		YES			English	14	YES

Country (# of institutions)	Planning Schools/Departments at Universities & Location	Bachelor /Undergraduate Degree, i.e.1st cycle under Bologna agreement/ (Number of years)	Master /Postgraduate Degree Title, i.e., 2 <sup>nd</sup> cycle under Bologna agreement)/ (Number of years)	Other, e.g. Planning as specialisation in a programme, or foundation programme (Number of years)	Doctoral (Number of years)	Number of graduate s 2010ª	Total number of student enrolled 2010 <sup>b</sup>	Language of provision	Number of academic staff ft /pt	AESOP member
	Sheffield Hallam University, Planning Regeneration and Housing, Faculty of Development & Society, Sheffield, England	MA in Urban and Environmental Planning (4 ft, also PT) combined	MSc in Urban and Regional Planning (1 ft, pt also available) combined MSc Urban Regeneration (1) specialist	MSc/PGDip/PgCert Local and Regional Economic Development Distance learning (non-RTPI), also short courses in sustainable communities and Environments (PT, Distance learning) non-RTPI, and MSc Geographical Information Systems (non-RTPI)				English		YES
	University of Westminster, Department of Urban Development and Regeneration, School of Architecture and the Built Environment, London, England	BA Business Management and Urban Development (3 ft, 5 pt) non-RTPI accredited	MA in Urban and Regional Planning (1 ft, 2 pt) combined MA International Planning and Sustainable Development (1 ft, pt also available) specialist MA Urban Regeneration (1 ft, 2 pt) specialist MA Urban Design (1 ft, 2 pt), specialist	Planning for Non-Planners (Short Course) non-RTPI accredited PGCert Urban Design (1 pt) non-RTPI accredited	YES			English	16 (planning)	YES
	University of the West of England, School of Planning and Architecture, Faculty of the Built Environment Bristol, England	BA (Hons) in Town and Country Planning with MA of Planning (4 ft, 6 pt) combined BA (Hons) in Planning with Transport with MA of Planning (4 ft, 6 pt) combined BA (Hons) in Property Development & Planning with MA of Planning (4 ft, 6 pt) combined BA (Hons) Geography and Planning with MA of Planning (4 to MPlan) combined BA (Hons) in Architecture and Planning (4) combined	MA in Town and Country Planning (1 ft, 2 pt) combined Diploma in Town and Country Planning (1 ft, 2 pt) spatial MA in Urban Design, (1 ft, 2 pt) specialist MSc in Transport Planning (1 ft, 2 pt) specialist MA in Spatial Planning (Web-based Distance Learning) specialist Partner in Joint Distance Learning MA in Town and Country Planning, 3,25 years for graduates with first degree, 7,25 years for non- graduates, combined	Wide range of short-courses				English	26	YES

Country (# of institutions)	Planning Schools/Departments at Universities & Location	Bachelor /Undergraduate Degree, i.e.1st cycle under Bologna agreement/ (Number of years)	Master /Postgraduate Degree Title, i.e., 2 <sup>nd</sup> cycle under Bologna agreement)/ (Number of years)	Other, e.g. Planning as specialisation in a programme, or foundation programme (Number of years)	Doctoral (Number of years)	Number of graduate s 2010ª	Total number of student enrolled 2010 <sup>b</sup>	Language of provision	Number of academic staff ft/pt	AESOP member
	University of Birmingham, Centre for Urban and Regional Studies (CURS), Birmingham, England	BA in Geography with Urban and Regional Planning (3) BA in Urban and Regional Planning with Social Policy (3) BA in Planning and Economics (3) BA Spatial Planning and Business Management (3)	MSc in Urban and Regional Planning (1 ft, 2 pt) combined		YES			English		YES
	Kingston University, School of Surveying and Planning Kingston-upon-Thames, England	All non-RTPI accredited	MA in Planning & Sustainability (1 ft, 2 pt) combined MA in Sustainable Place Making and Urban Design (1 ft, 2 pt) combined (provisional accreditation from July 2010)		YES			English		YES
	Leeds Metropolitan University, School of the Built Environment, Leeds, England		MA in Town and Regional Planning (1 ft, 2 pt) combined MA in Local and Regional Regeneration (1 ft, 2 pt) MA Heritage and Planning (1 ft, 2 pt) specialist Partner in Joint Distance Learning MA in Town and Country Planning, 3,25 years for graduates with first degree, 7.25 years for non-					English		NO
	University of Cambridge, Department of Land Economy, Cambridge, England	BA (Hons) in Land Economy (3) Not RTPI accredited	graduates, combined MPhil in Planning, Growth and Regeneration (1, pt also available) combined, conditional accreditation May 2009.	MPhil in Land Economy Research/or thesis (10 months) MPhil in Real Estate Finance (10 months) MPhil in Environmental Policy (10 months) All Not RTPI accredited	YES In Land Economy			English		YES
	University of Plymouth, Faculty of Science and Technology, Plymouth, England		MSc Planning (1 ft, 2 pt), combined; provisional accreditation July 2010					English		NO

Country (# of institutions)	Planning Schools/Departments at Universities & Location	Bachelor /Undergraduate Degree, i.e.1st cycle under Bologna agreement/ (Number of years)	Master /Postgraduate Degree Title, i.e., 2 <sup>nd</sup> cycle under Bologna agreement)/ (Number of years)	Other, e.g. Planning as specialisation in a programme, or foundation programme (Number of years)	Doctoral (Number of years)	Number of graduate s 2010ª	Total number of student enrolled 2010 <sup>b</sup>	Language of provision	Number of academic staff ft /pt	AESOP member
	University of Brighton, School of Environment and Technology, Brighton, England		MSc Town Planning (1 ft, 2 pt), combined; provisional accreditation July 2009					English		NO
	University of Ulster, School of the Built Environment, Newtownabbey, Northern Ireland		Integrated Masters (MSci) in Planning and Property Development (4, pt also available) combined		YES			English		YES
	Queens University Belfast, School of Planning, Architecture and Civil Engineering Belfast, Northern Ireland	BSc (Hons) in Environmental Planning (3) spatial	MSc in Environmental Planning (1) combined MSc in Urban and Rural Design (1) specalist MSc in Spatial Regeneration (1) Specialist		YES			English		YES
	University of Strathclyde, Department of Architecture Glasgow, Scotland		MSc Urban Design (1 ft, 2 pt), specialist					English		NO
	University of Aberdeen, Department of Geography and Environment, Centre of Planning and Environmental Management, Aberdeen, Scotland	MA in Spatial Planning (4) combined MA in Property and Spatial Planning (4) combined MA in Rural Surveying and Spatial Planning (4) combined	MSc in Urban Planning and Real Estate Development (1 ft, 2 pt) combined MSc in Rural Planning and Environmental Management (1 ft, 2 pt) combined		YES			English		YES
	Heriot Watt University, School of the Built Environment, Edinburgh, Scotland	BSc (Hons) in Urban & Regional Planning (4 or 5 yrs with 12 months internship) BSc (Hons) in Planning & Property Development (4)	MSc in Urban and Regional Planning (1) combined MSc in Real Estate and Planning (1) combined					English	65	YES

Country (# of institutions)	Planning Schools/Departments at Universities & Location	Bachelor /Undergraduate Degree, i.e.1st cycle under Bologna agreement/ (Number of years)	Master /Postgraduate Degree Title, i.e., 2 <sup>nd</sup> cycle under Bologna agreement)/ (Number of years)	Other, e.g. Planning as specialisation in a programme, or foundation programme (Number of years)	Doctoral (Number of years)	Number of graduate s 2010ª	Total number of student enrolled 2010 <sup>b</sup>	Language of provision	Number of academic staff ft /pt	AESOP member
	University of Dundee, Town and Regional Planning – School of Social Sciences, Dundee, Scotland	MA (Hons) in Town and Regional Planning (4) combined	MSc Spatial Planning with Environmental Assessment (1 ft, 2 pt) combined MSc Spatial Planning with Community Engagement (1 ft, 2 pt), combined MSc Spatial Planning with Sustainable Urban Design (1 ft, 2 pt) combined MSc Spatial Planning with Transport Planning (1 ft, 2 pt) combined MSc Spatial Planning with Marine Spatial planning (1 ft, 2 pt) combined MSc Spatial Planning with Marine Spatial planning (1 ft, 2 pt) combined MSc European Urban Conservation (1 ft, 2 pt) specialist MSc International Urban Conservation (1 ft, 2 pt) specialist Partner in Joint Distance Learning MA in Town and Country Planning, 3,25 years for graduates with first degree, 7,25 years for non- graduates, combined		YES			English		NO
	University of Glasgow, Department of Urban Studies, Glasgow, Scotland		MSc in City & Regional Planning (1 ft, 2 pt) combined MSc in City Planning & Real Estate Development, (1 ft, 2 pt) combined MSc in City Planning & Regeneration (1 ft, 2 pt) combined		YES	26	29	English	9	YES

Country (# of institutions)	Planning Schools/Departments at Universities & Location	Bachelor /Undergraduate Degree, i.e.1₅t cycle under Bologna agreement/ (Number of years)	Master /Postgraduate Degree Title, i.e., 2 <sup>nd</sup> cycle under Bologna agreement)/ (Number of years)	Other, e.g. Planning as specialisation in a programme, or foundation programme (Number of years)	Doctoral (Number of years)	Number of graduate s 2010ª	Total number of student enrolled 2010 <sup>b</sup>	Language of provision	Number of academic staff ft/pt	AESOP member
	Cardiff University, School of Geography and Planning, Cardiff, Wales	BSc in City and Regional Planning (3+1 year of paid internship = ), spatial BSc in City and Regional Planning (3), spatial	MSc in Planning Practice and Research (1 ft, 2 pt) combined MSc in International Planning and Development (1 ft, 2 pt) combined MA in Urban Design (1 ft, 2 pt) specialist MSc in sustainability, Planning and Environmental Policy (1 ft, 2 pt) specialist MSc in Transport and Planning (1 ft, 2 pt) specialist MSc in Regeneration Studies (1 ft, 2 pt) specialist MSc in Housing (1 ft, 2 pt) specialist (will be discontinued)		Yes			English	40	YES

- a) Number of graduates from all planning programs (Bachelor, Masters etc)
- b) Total number of students enrolled in all programs and years.
- c) ft: full-time, pt: part-time, FTE Full time equivalent meaning part-time staff is accounted in this, visiting is to be interpreted as part-time non permanent staff
- d) Students who wish to progress to Chartered RTPI Membership must have completed either a combined qualification or a spatial qualification and a specialist qualification see also UK case study
- e) Integrated Master (as first cycle) are equivalent to 4 years of study and 240 Credits (falling short of the minimum Bologna requirement of 270 ECTS for Bachelor 180 ECTS and Master 90 ECTS, but are recognized by the professional body)
- f) PSA (Poland) HEIs which signed Memorandum of Understanding which will be the basis of formal cooperation of planning schools in Poland

\*source: Hirt and Stanilov, 2008, p. 78-79

++ Kosovo is not (yet) a Council of Europe Member but included as AESOP member

	Total ECTS	Duration	Subjects	ECTS
			Basic Sanitation	6
			Construction Technology	6
			Reinforced Concrete	6
			Transportation Infrastructure	6
			Steel Structures	6
S			Environmental Impacts	4,5
ourse			Foundations	4,5
ry co			Urban Project	4,5
ulso	117	one semester	Construction Works Overseeing, Management and Inspection	6
Compulsory courses			Project in Urbanism, Transports and Transportation Infrastructures	4,5
0			Transportation Engineering	6
			Transport Planning	6
			Transport Infrastructure Engineering	6
			Planning and Municipal Urban Management	6
			Seminar in Urbanism, Transports and Transportation Infrastructures	6
			Project	4,5
			Dissertation	28,5
Optional	3	one	Option I	1,5
ptional	5	semester	Option II	1,5
		Mas	University of Oporto ster in Civil Engineering specialization in Planning	
			Structural Concrete I	8
			Project Management	3
			Environmental and Urban Hydraulics	6,5
			Soil Mechanics I	7
Ś			Roads I	5,5
urse			Urban Environment and Transport Planning	5
y co	100	one	Structural Concrete II	8
ulsor	120	semester	Construction Management and Safety	4,5
Compulsory courses			Soil Mechanics II	6
C			Roads II	6,5
			Dissertation	30
			Urban Management	5
			orban management	Ŭ

## Table II: Selected Specializations in Planning within Master Programs of Civil Engineering and Architecture 2011/2012

			Regional Planning	5
			Urban Planning	5
			Transportation Systems	5
		Master in <b>Ar</b>	Technical University of Lisbon chitecture specialization in Territorial and Urban Planning	
			Laboratory of Territorial and Urban Design I, II and III	30,5
			Theory and History of Planning	3,5
			Law of Architecture and Urbanism	3,5
		one semester	Networks and Infrastructure I and II	10
			Analysis and Data Processing	3,5
ses			Planning Methodology	3,5
Compulsory courses	106,5		Geographic Information Systems	3,5
sory			Urban Economics	3,5
sIndu			Urban Renewal	3,5
Con			Territorial and Urban Administration	3,5
			Transport and Road Systems	3,5
			Economic Analysis Applied to Planning	4,5
			Final Project	21
			Seminars	4,5
			Planning Methodology	4,5
			Option A	4,5
Optional	13,5	13,5 one semester	Option B	4,5
			Option C	4,5